

PROJECT LICENSED PROFESSIONAL CERTIFICATES

<div>Melissa Janet Ambler</div> <div>Jan 18, 2023</div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div>Julie Heilman</div> <div>Jan 17, 2023</div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div>Lindsey Jungbluth</div> <div>Jan 18, 2023</div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div>Greg Leege</div> <div>Jan 18, 2023</div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>
<div>Rolf Hyllseth</div> <div>Jan 18, 2023</div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div>Michael Rosa</div> <div>Jan 17, 2023</div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div>Demetre Phillips</div> <div>Jan 18, 2023</div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div></div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>
<div></div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div></div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div></div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>	<div></div> <div>AS A LICENSED PROFESSIONAL IN DIRECT RESPONSIBLE CHARGE OF DEVELOPING THIS CONTRACT, I CERTIFY THAT ALL PLANS THAT CONTAIN MY STAMP HAVE BEEN DEVELOPED UNDER MY SUPERVISION.</div>

NOTES:

THIS PLAN SET WAS DEVELOPED ELECTRONICALLY UNDER THE DIRECT SUPERVISION OF THE LICENSED PROFESSIONALS THAT HAVE AFFIXED THEIR SIGNATURE TO THIS PAGE.

THIS SHEET SERVES AS THE CERTIFICATION BY THE ABOVE LICENSED PROFESSIONALS OF ALL SHEETS IN THIS PLAN SET WHERE THEIR STAMPS AND SIGNATURES APPEAR.

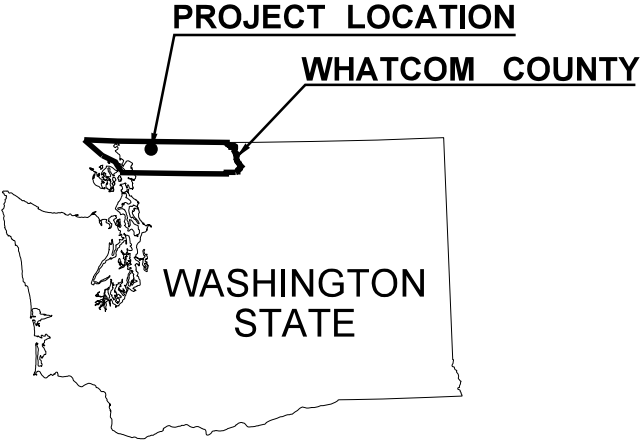
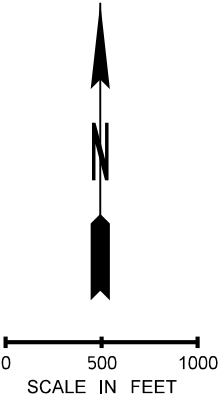
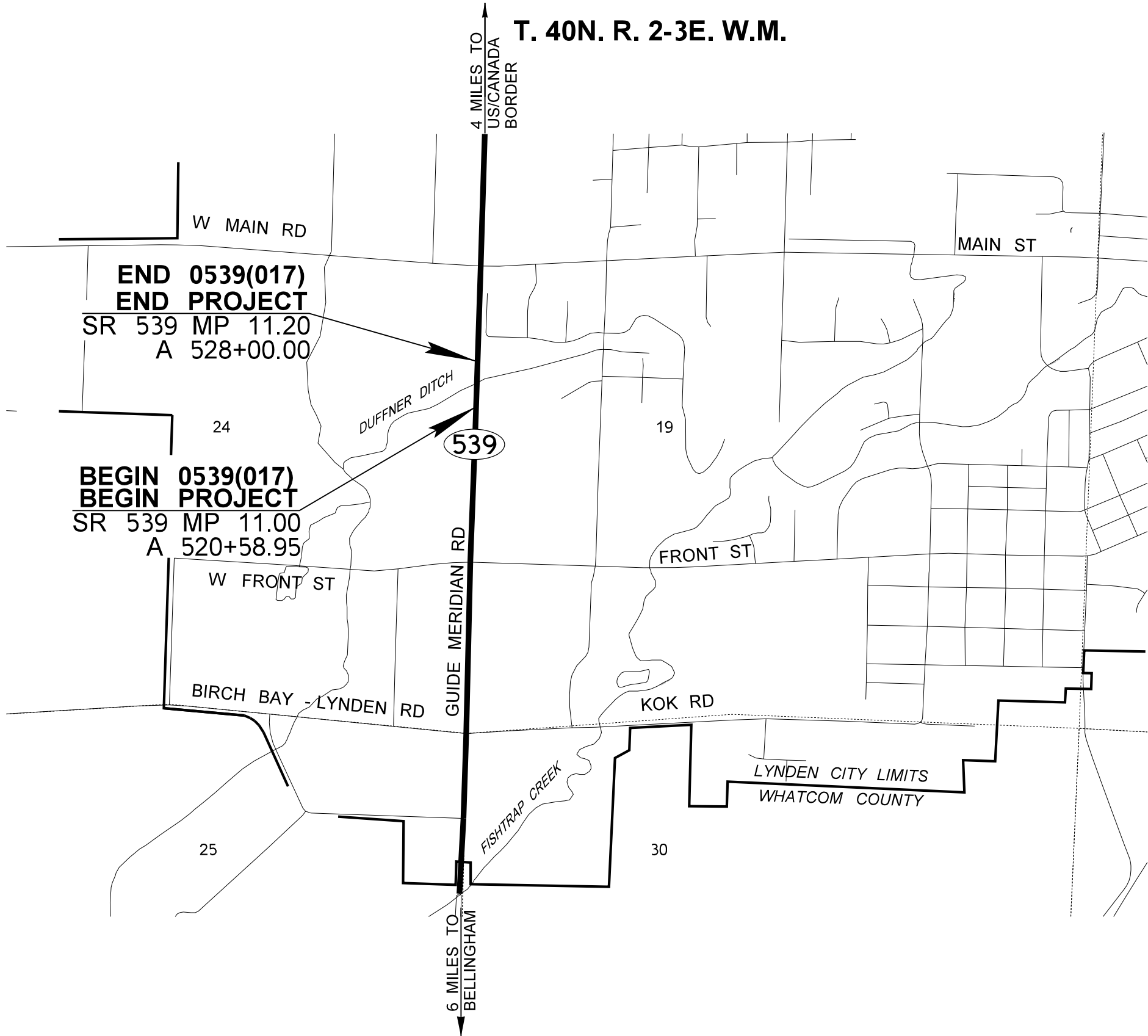
c:\users\nguyeaad\pw_wsdot\0460269\XL6478_010_PS_INCT.dgn

FILE NAME	XL6478_010_PS_INCT.dgn	REGION NO.	STATE	FED. AID PROJ. NO.					PLAN REF NO
TIME	4:44:39 PM	10	WASH						CT1
DATE	9/29/2022	JOB NUMBER							
PLOTTED BY	nguyeaad	22A040							SHEET 2 OF 58 SHEETS
DESIGNED BY	A. NGUYEN	CONTRACT NO.		LOCATION NO.					
ENTERED BY	A. NGUYEN								
CHECKED BY	S. TRAX								
PROJ. ENGR.	M. AMBLER								
REGIONAL ADM.	B. NIELSEN								
REVISION		DATE		BY					

SR 539
DUFFNER DITCH
FISH PASSAGE

CERTIFICATION SHEET

c:\users\nguyea\pwwsdot\0460269\XL6478_020_PS_VM.dgn



PLAN REFERENCE NO.
SHEET OF SHEETS

- NOTE:**
- ALL SHEET REFERENCES, FIRST NOS. OF STRUCTURE CODE DESIGNATIONS AND MATCH LINE SHEET REFERENCES, ETC., THROUGHOUT THE PLANS, REFER TO THE ENTRY IN THE PLAN REFERENCE NUMBER BOX.
 - SEE SHEET DU1 FOR FULL DETOUR PLAN

FILE NAME	XL6478_020_PS_VM.dgn				
TIME	9:48:08 AM				
DATE	1/17/2023				
PLOTTED BY	nguyea				
DESIGNED BY	A. NGUYEN				
ENTERED BY	A. NGUYEN				
CHECKED BY	S. TRAX				
PROJ. ENGR.	M. AMBLER				
REGIONAL ADM.	B. NIELSEN				
	REVISION		DATE	BY	

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	
JOB NUMBER		
22A040		
CONTRACT NO.	LOCATION NO.	



DATE
P.E. STAMP BOX - SEE SHEET CT1 FOR SIGNATURE

DATE
P.E. STAMP BOX - SEE SHEET CT1 FOR SIGNATURE

SR 539
DUFFNER DITCH
FISH PASSAGE

VICINITY MAP

PLAN REF NO
VM1
SHEET 3 OF 58 SHEETS

SUMMARY OF QUANTITIES

ITEM NO	TOTAL QUANTITY	SUB-TOTAL ★ SECTION I-07.2(1) OF STANDARD SPECS	SUB-TOTAL ** SECTION I-07.2(2) OF STANDARD SPECS	STD. ITEM NO.	UNIT	ITEM	GROUP 1	GROUP 2												
							SR 539 MP11.0-11.20	THIRD PARTY DAMAGES												
						PREPARATION														
1	LUMP SUM	LUMP SUM		0001	L.S.	MOBILIZATION	L.S.													
2	0.30	0.30		0025	ACRE	CLEARING AND GRUBBING	0.30													
3	LUMP SUM	LUMP SUM		0050	L.S.	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	L.S.													
						GRADING														
4	381.00	381.00		0310	C.Y.	ROADWAY EXCAVATION INCL. HAUL	381.00													
5	3052.00	3052.00		0408	TON	SELECT BORROW INCL. HAUL	3,052.00													
6	1650.00	1650.00		0470	C.Y.	EMBANKMENT COMPACTION	1,650.00													
						DRAINAGE														
7	410.00	410.00		1040	C.Y.	CHANNEL EXCAVATION INCL. HAUL	410.00													
8	340.00	340.00		0901	TON	STREAMBED COBBLES 6 IN.	340.00													
9	93.00	93.00		0902	TON	STREAMBED COBBLES 8 IN.	93.00													
10	80.00	80.00		0906	TON	STREAMBED BOULDER TYPE ONE	80.00													
11	1.00	1.00		0908	EACH	STREAMBED BOULDER TYPE THREE	1.00													
12	45.00	45.00		917	TON	AQUITARD	45.00													
13	4.00	4.00		1086	TON	QUARRY SPALLS	4.00													
14	63.00	63.00		1090	TON	STREAMBED SAND	63.00													
15	795.00	795.00		1093	TON	STREAMBED SEDIMENT	795.00													
16	90.00	90.00		3018	L.F.	HIGH-DENSITY POLYETHYLENE (HDPE) PIPE 24 IN. DIAM.	90.00													
17	55.00	55.00		3030	C.Y.	CULVERT BEDDING MATERIAL	55.00													
18	LUMP SUM	LUMP SUM		3075	L.S.	TEMPORARY STREAM DIVERSION	L.S.													
19	5000.00	5000.00		3076	DOL	FISH EXCLUSION	5,000.00													
						STORM SEWER														
20	201.00	201.00			L.F.	CORRUGATED POLYETHYLENE STORM SEWER PIPE 30 IN. DIAM.	201.00													
21	3.00	3.00		3106	EACH	CATCH BASIN TYPE 2 54 IN. DIAM.	3.00													
22	1.00	1.00			EACH	DUCK BILL CHECK VALVE 24 IN. DIAM.	1.00													
23	1.00	1.00			EACH	DUCK BILL CHECK VALVE 30 IN. DIAM.	1.00													
						STRUCTURE														
24	1990.00	1990.00		4006	C.Y.	STRUCTURE EXCAVATION CLASS A INCL. HAUL	1,990.00													
25	LUMP SUM	LUMP SUM		4013	L.S.	SHORING OR EXTRA EXCAVATION CL. A CDBS	L.S.													
26	LUMP SUM	LUMP SUM		4335	L.S.	CONTRACTOR DESIGNED BURIED STRUCTURE NO. 1	L.S.													
27	106.00	106.00		4412	L.F.	BRIDGE RAILING TYPE CHAIN LINK FENCE	106.00													
						SURFACING														
28	400.00	400.00		5040	TON	PERMEABLE BALLAST	400.00													
29	330.00	330.00		5100	TON	CRUSHED SURFACING BASE COURSE	330.00													
						HOT MIX ASPHALT														
30	70.00	70.00		5711	S.Y.	PLANING BITUMINOUS PAVEMENT	70.00													
31	500.00	500.00		5767	TON	HMA CL. 1/2 IN. PG 58H-22	500.00													
32	1080.00	1080.00		5830	DOL	JOB MIX COMPLIANCE PRICE ADJUSTMENT	1,080.00													
33	1800.00	1800.00		5835	DOL	COMPACTION PRICE ADJUSTMENT	1,800.00													
34	384.00	384.00		5837	DOL	ASPHALT COST PRICE ADJUSTMENT	384.00													
35	3.00	3.00		6885	EACH	HMA CORE-ROADWAY	3.00													

GROUP LEGEND	GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
	1	539	373102	*	FEDERAL, STATE
	2	539	373102	*	FEDERAL, STATE

			REGION	STATE	FEDERAL AID PROJECT. NO.		Washington State Department of Transportation		SQ1
			10	WA	NHPP-MVA				
			JOB NUMBER						
			22A040/3						
			CONTRACT NO						
DATE	REVISION	BY	000000						SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES

[illegible]

GROUP LEGEND	GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
	1	539	373102	*	FEDERAL,STATE
	2	539	373102	*	FEDERAL,STATE

			REGION	STATE	FEDERAL AID PROJECT. NO.		Washington State Department of Transportation		SQ2
			10	WA	NHPP-MVA				
			JOB NUMBER 22A040/3						
			CONTRACT NO						
DATE	REVISION	BY	000000					SUMMARY OF QUANTITIES	SHEET 5 OF 58 SHEETS

SUMMARY OF QUANTITIES

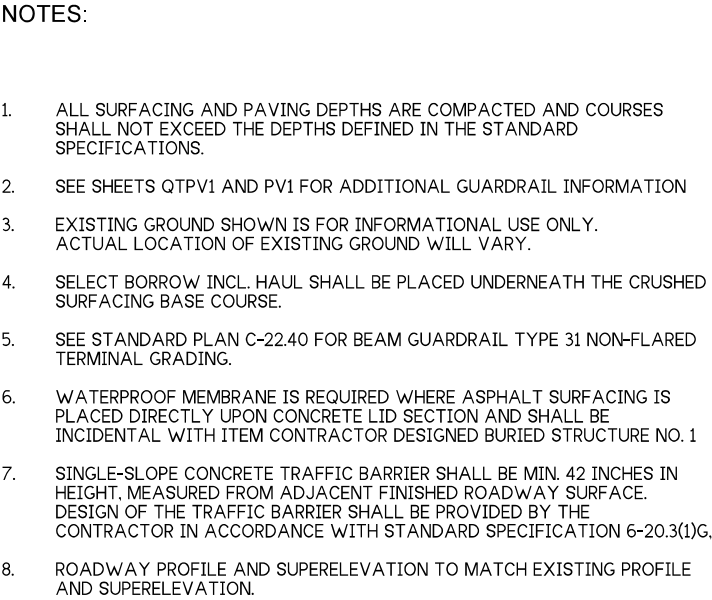
DOT_RGG900

1/17/2023

[illegible]

GROUP LEGEND	GROUP NUMBER	SR	CONTROL SECTION	TAX SCHEDULE	FUND PARTICIPANTS
	1	539	373102	*	FEDERAL, STATE
	2	539	373102	*	FEDERAL, STATE

			REGION	STATE	FEDERAL AID PROJECT. NO.				SQ3
			10	WA	NHPP-MVA				SHEET
			JOB NUMBER						6
			22A040/3						OF
			CONTRACT NO						58
DATE	REVISION	BY	000000					SUMMARY OF QUANTITIES	SHEETS



STA. A 523+86.81 TO STA. A 523+97.23
STA. A 524+55.01 TO STA. A 524+82.96
NOT TO SCALE

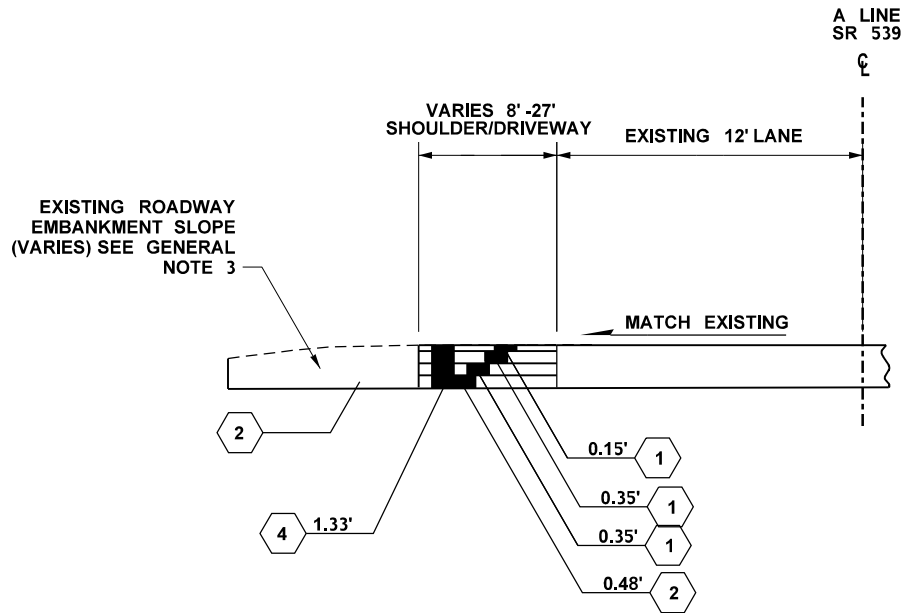


- | | |
|---|-------------------------------|
| 1 | HMA CL. 1/2 IN. PG 58H-22 |
| 2 | CRUSHED SURFACING BASE COURSE |
| 3 | SELECT BORROW INCL. HAUL |
| 4 | ROADWAY EXCAVATION INCL. HAUL |
| 5 | EMBANKMENT COMPACTION |

STA. A 523+97.23 TO STA. A 524+55.01
NOT TO SCALE

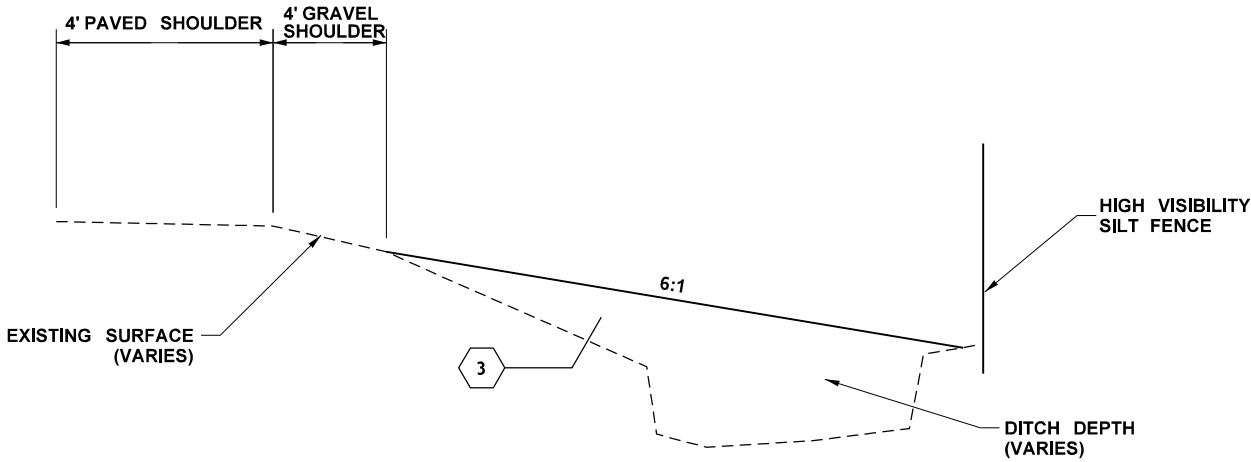
FILE NAME XL6478_050_PS_RS_001.dgn					REGION NO.	STATE	FED. AID PROJ. NO.			<div>SR 539 DUFFNER DITCH FISH PASSAGE</div>	PLAN REF NO.
TIME	10:39:42 AM			10	WASH	JOB NUMBER 22A040	RS1				
DATE	1/17/2023										
DESIGNED BY	A. NGUYEN										
ENTERED BY	A. NGUYEN										SHEET 7 OF 58 SHEETS
CHECKED BY	S. TRAX										
PROJ. ENGR.	M. AMBLER										
REGIONAL ADM.	B. NIELSEN										
		REVISION		DATE	BY	LOCATION NO.				ROADWAY SECTIONS	

c:\users\nguyeaalpw_wsdot\id0460269\XL6478_050_PS_RS_001.dgn



ROADWAY SECTION C

STA. A 522+71.45 TO STA. A 523+86.81
STA. A 524+82.96 TO STA. A 525+93.86
NOT TO SCALE

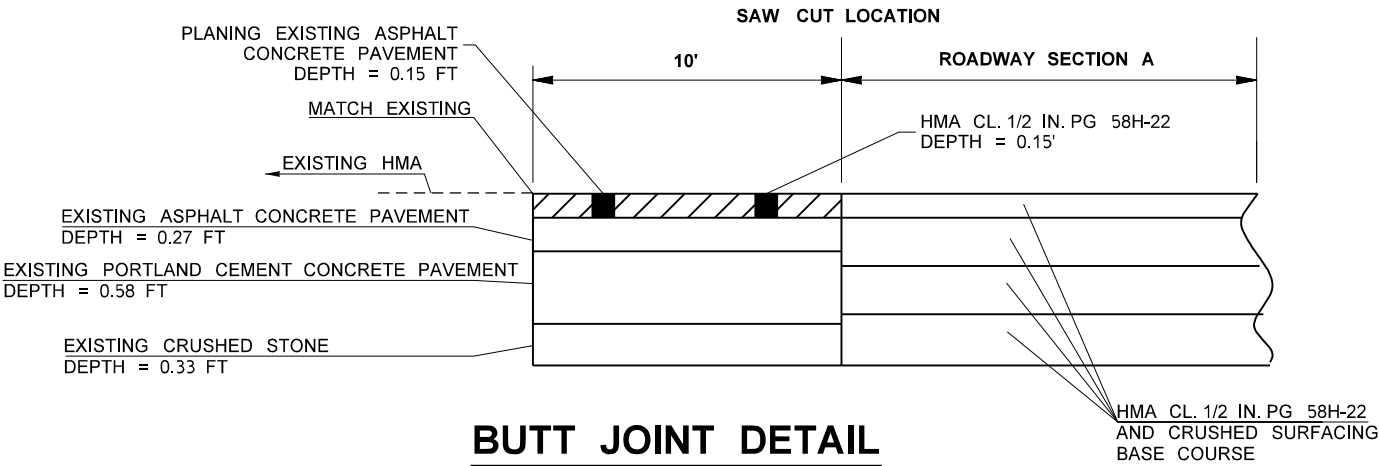


DITCH FILL DETAIL

STA. A 523+73.28 TO STA. A 524+17.59
NOT TO SCALE

NOTES:

1. ALL SURFACING AND PAVING DEPTHS ARE COMPACTED AND COURSES SHALL NOT EXCEED THE DEPTHS DEFINED IN THE STANDARD SPECIFICATIONS.
2. SEE SHEETS QTPV1 AND PV1 FOR ADDITIONAL GUARDRAIL INFORMATION
3. EXISTING GROUND SHOWN IS FOR INFORMATIONAL USE ONLY. ACTUAL LOCATION OF EXISTING GROUND WILL VARY.
4. SELECT BORROW INCL. HAUL WILL BE PLACED UNDERNEATH THE CRUSHED SURFACING BASE COURSE.
5. SEE STANDARD PLAN C-22.40 FOR BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL GRADING.
6. ROADWAY PROFILE AND SUPERELEVATION TO MATCH EXISTING PROFILE AND SUPERELEVATION.



BUTT JOINT DETAIL

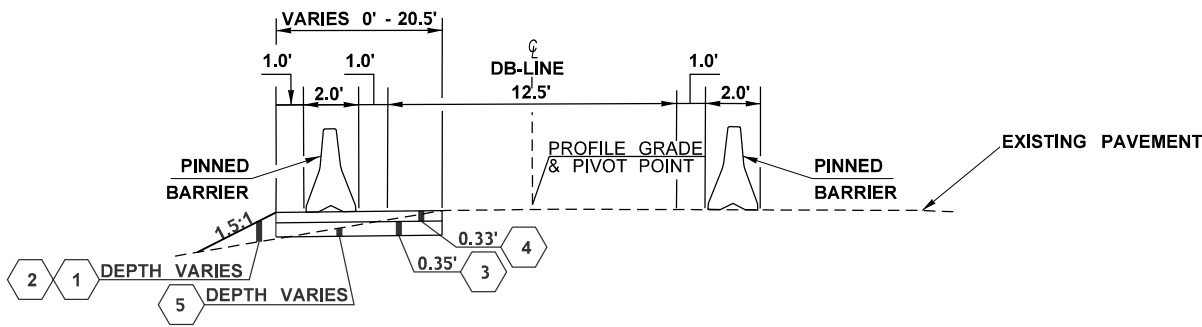
STA. A 523+76.81 TO STA. A 523+86.81 AND
STA. A 524+82.96 TO STA. A 524+93.60
NOT TO SCALE

LEGEND

- 1 HMA CL. 1/2 IN. PG 58H-22
- 2 CRUSHED SURFACING BASE COURSE
- 3 SELECT BORROW INCL. HAUL
- 4 ROADWAY EXCAVATION INCL. HAUL
- 5 EMBANKMENT COMPACTION

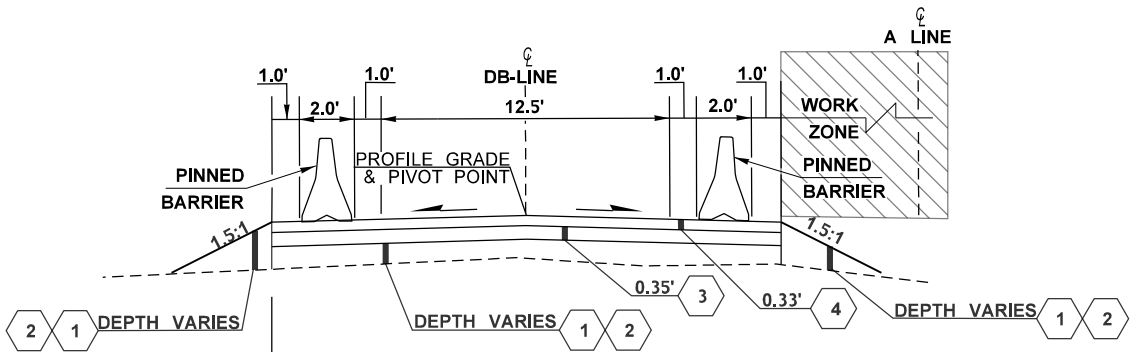
c:\users\nguyea\pwworking\wso\dot\0460269\XL6478_050_PS_RS_002.dgn

FILE NAME XL6478_050_PS_RS_002.dgn				REGION NO.	STATE	FED. AID PROJ. NO.			SR 539		PLAN REF NO
TIME 2:17:53 PM				10	WASH				DUFFNER DITCH		RS2
DATE 1/17/2023				JOB NUMBER					FISH PASSAGE		SHEET 8 OF 58 SHEETS
PLOTTED BY nguyea				22A040							
DESIGNED BY A. NGUYEN				CONTRACT NO.							
ENTERED BY A. NGUYEN						LOCATION NO.					
CHECKED BY S. TRAX											
PROJ. ENGR. M. AMBLER									ROADWAY SECTION		
REGIONAL ADM. B. NIELSEN											
REVISION				DATE	BY						



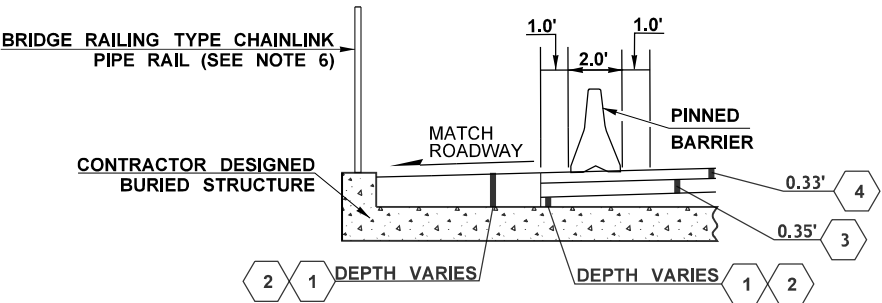
BYPASS SECTION DB-1

STA DB 05+97 TO STA DB 06+52
STA DB 08+43 TO STA DB 09+23
NOT TO SCALE



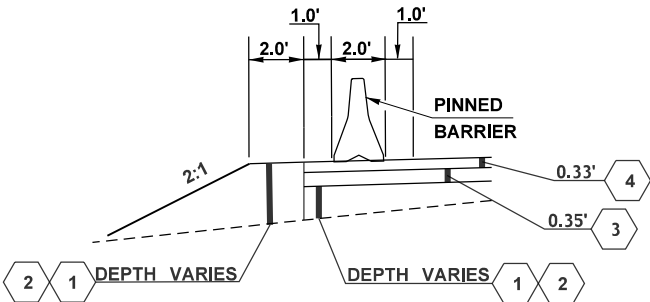
BYPASS SECTION DB-2

STA DB 06+52 TO STA DB 08+43
NOT TO SCALE



**ALTERNATE SHOULDER FILL
OVER CULVERT**

STA DB 07+11 TO STA DB 07+38
NOT TO SCALE



**ALTERNATE SHOULDER FILL
OVER EXISTING CHANNEL**

STA DB 06+54 TO STA DB 07+11
NOT TO SCALE

DUFFNER DITCH TEMPORARY BYPASS ROAD SECTION DETAILS

LEGEND

- 1 SELECT BORROW INCL. HAUL
- 2 EMBANKMENT COMPACTION
- 3 CRUSHED SURFACING BASE COURSE
- 4 HMA CL. 1/2 IN. PG 58H-22
- 5 ROADWAY EXCAVATION INCL. HAUL

GENERAL NOTES:

- ALL SURFACING AND PAVING DEPTHS ARE COMPACTED DEPTHS AND COURSES SHALL NOT EXCEED THE DEPTHS DEFINED IN THE STANDARD SPECIFICATIONS.
- PROVIDE SMOOTH BLEND OF PROPOSED SURFACING AT INTERFACE WITH EXISTING SURFACING AND IN BETWEEN SECTIONS.
- TEMPORARY BARRIER SHALL BE PINNED. SEE TB1 AND QTTB1 SHEET FOR LIMITS OF BARRIER.
- EXISTING GROUND ONLY SHOWN FOR INFORMATION PURPOSES. ACTUAL LOCATION OF EXISTING GROUND MAY VARY.
- BOTH HMA AND CSBC SHALL BE REMOVED WHEN THE TEMPORARY BYPASS IS REMOVED. SELECT BORROW SHALL BE LEFT IN PLACE TO BE THE NEW SHOULDER EMBANKMENT.
- SEE BR1 FOR FENCE DETAIL.

c:\users\nguyea\p\w\wsdot\04060269\XL6478_070_PS_TB2.dgn

FILE NAME	XL6478_070_PS_TB2.dgn	REGION NO.	10	STATE	WASH	FED. AID PROJ. NO.		PLAN REF NO	TB2
TIME	12:14:48 AM	JOB NUMBER	22A040					SHEET	11
DATE	1/9/2023	CONTRACT NO.						OF	58
PLOTTED BY	nguyea							SHEETS	
DESIGNED BY	A. NGUYEN								
ENTERED BY	A. NGUYEN								
CHECKED BY	S. TRAX								
PROJ. ENGR.	M. AMBLER								
REGIONAL ADM.	B. NIELSEN								
REVISION		DATE		BY					

DATE

P.E. STAMP BOX - SEE SHEET CT1 FOR SIGNATURE

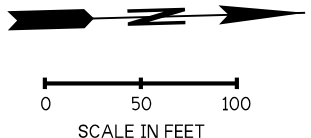
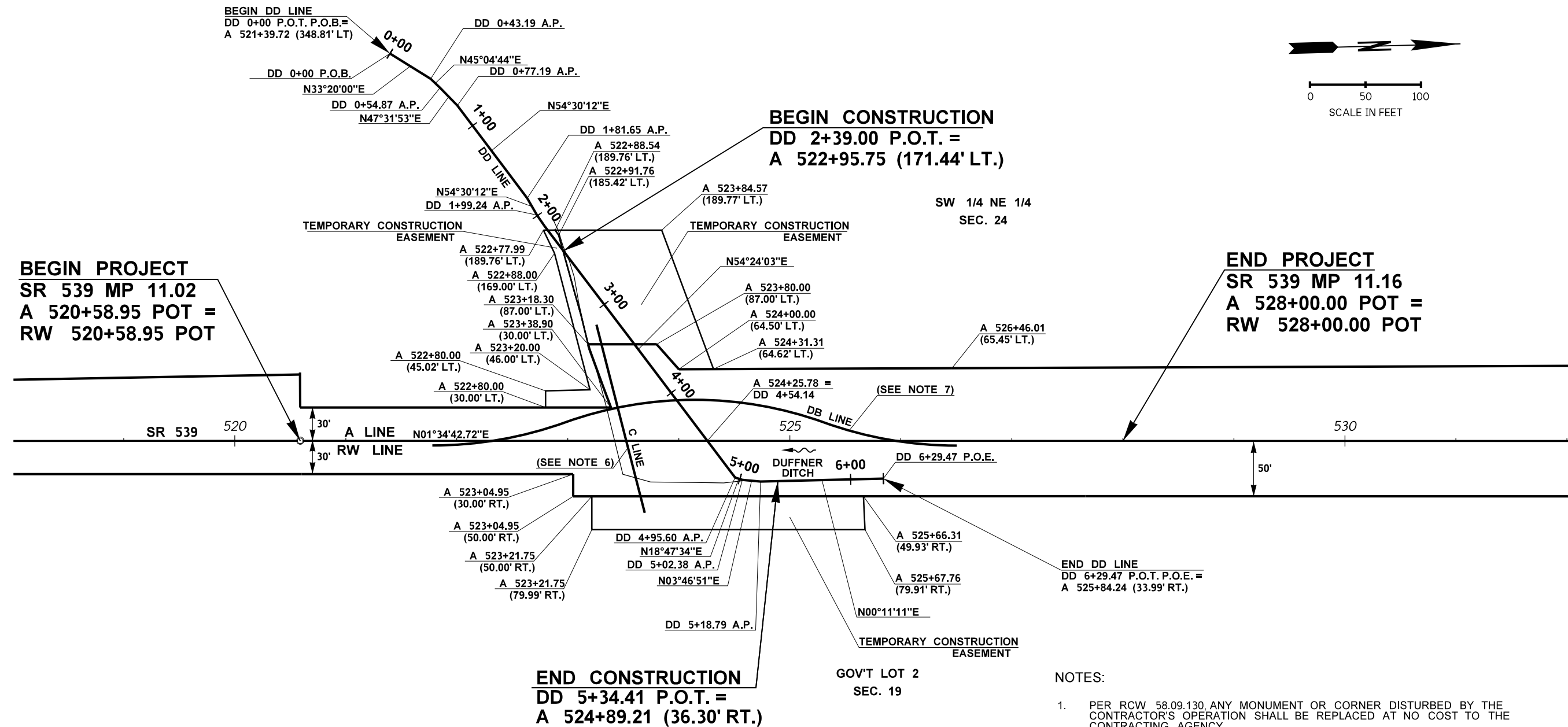
DATE

P.E. STAMP BOX - SEE SHEET CT1 FOR SIGNATURE

SR 539
DUFFNER DITCH
FISH PASSAGE

TEMPORARY BYPASS PLAN

T. 40N. R. 3E. W.M. SEC. 24 & SEC. 19



BEGIN PROJECT
SR 539 MP 11.02
A 520+58.95 POT =
RW 520+58.95 POT

END PROJECT
SR 539 MP 11.16
A 528+00.00 POT =
RW 528+00.00 POT

END CONSTRUCTION
DD 5+34.41 P.O.T. =
A 524+89.21 (36.30' RT.)

- NOTES:
- PER RCW 58.09.130, ANY MONUMENT OR CORNER DISTURBED BY THE CONTRACTOR'S OPERATION SHALL BE REPLACED AT NO COST TO THE CONTRACTING AGENCY.
 - BASIS OF BEARINGS AND DISTANCES ARE DETERMINED FROM WASHINGTON COORDINATE SYSTEM NORTH ZONE (4601) (NAD 83/11).
 - THE DISTANCES SHOWN ARE GROUND DISTANCES. TO OBTAIN THE GRID DIMENSIONS, MULTIPLY THE GROUND DIMENSION BY THE COMBINED FACTOR OF 1.00004827.
 - ALL DIMENSIONS & DISTANCES SHOWN ARE GROUND DISTANCES IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.
 - ALL COORDINATE VALUES SHOWN ARE IN PROJECT DATUM.
 - SEE SHEET CRP1 FOR FULL C LINE ALIGNMENT INFORMATION.
 - SEE SHEET TB1 FOR FULL DB LINE ALIGNMENT INFORMATION.

LEGEND

- 595 WSDOT RIGHT OF WAY
- 595 CONSTRUCTION CENTERLINE
- 595 TEMPORARY EASEMENT
- 595 ROADWAY CENTERLINE
- 595 SECTION LINE
- 595 EXISTING STREAM THALWEG
- 595 FOUND MONUMENT



c:\users\nguyea\pwws\dot\0460269\XL6478_090_PS_AL.dgn

FILE NAME XL6478_090_PS_AL.dgn				REGION NO. 10	STATE WASH	FED. AID PROJ. NO.			SR 539 DUFFNER DITCH FISH PASSAGE	PLAN REF NO AL1
TIME 10:50:45 AM				JOB NUMBER 22A040						SHEET 12 OF 58 SHEETS
DATE 12/27/2022										
PLOTTED BY nguyea					CONTRACT NO.	LOCATION NO.				
DESIGNED BY A. NGUYEN										
ENTERED BY A. NGUYEN										
CHECKED BY S. TRAX										
PROJ. ENGR. M. AMBLER										
REGIONAL ADM. B. NIELSEN										
REVISION				DATE	BY				ALIGNMENT / RIGHT OF WAY PLAN	

QUANTITY TABULATION - SITE PREPARATION / TESC									
---	--	--	--	--	--	--	--	--	--

NOTE:
THE FIRST NUMBER OF THE "CODE" BELOW
REFERS TO THE SHEET NO. OR THE SHEET
REFERENCE NO. SHOWING THE
CONSTRUCTION FEATURE.

THE SECOND NUMBER REFERS TO THE
CONSTRUCTION FEATURE FOUND ON THAT
SHEET.

[illegible]

1. GAS LINE LIMITS SHOWN FOR INFORMATIONAL PURPOSE ONLY. SEE SPECIAL PROVISIONS REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
2. SEE STANDARD PLAN I-10.10 "HIGH VISIBILITY FENCE".
3. SEE STANDARD PLAN I-30.17 "HIGH VISIBILITY SILT FENCE".

[illegible][illegible]

REVISION	BY

[illegible][illegible]

	L.F.
65	
65	
65	

	L.F.
65	
65	
65	

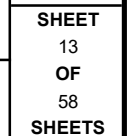
FED. AID PROJ. NO.

WASH

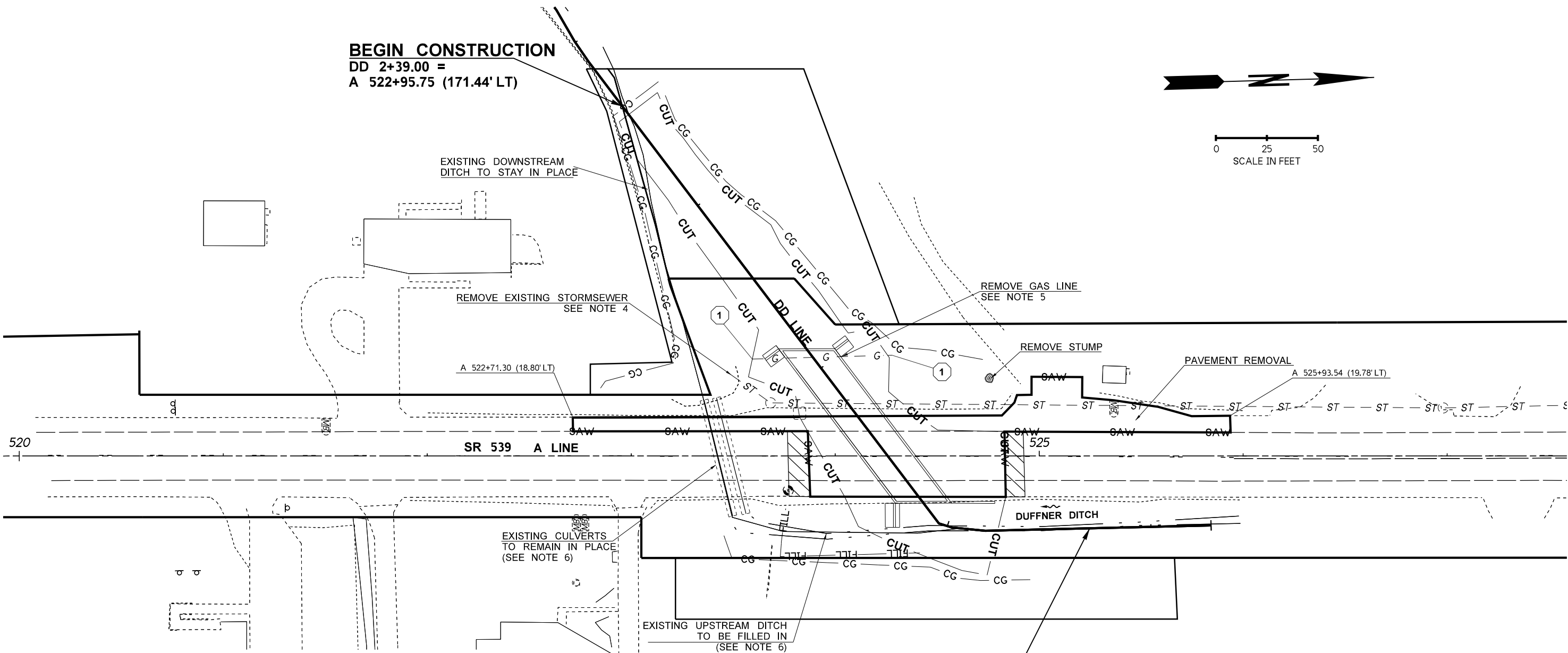
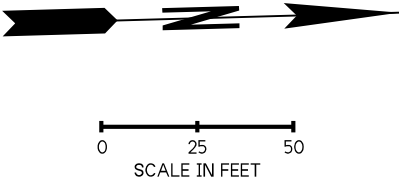
22A040

BY

BY



BEGIN CONSTRUCTION
DD 2+39.00 =
A 522+95.75 (171.44' LT)



END CONSTRUCTION
DD 5+34.41 =
A 524+89.21 (36.30' RT)

LEGEND

	WSDOT RIGHT OF WAY		EXISTING STORMWATER PIPE
	CONSTRUCTION CENTERLINE		CLEAR & GRUB LIMIT
	STREAM CENTERLINE		EXISTING SIGNS
	TEMPORARY EASEMENT		EXISTING MAILBOX
	EXISTING STREAM CENTERLINE		EXISTING BUILDINGS
	EXISTING DITCH LINE		BORING HOLE
	EXISTING CULVERT		MONITORING WELL
	EXISTING PAVEMENT EDGE		PIEZOMETER
	EXISTING LANE EDGE		FLOW DIRECTION
	EXISTING GRAVEL EDGE		BUTT JOINT
	EXISTING RETAINING WALL		PAVEMENT REMOVAL
	CUT LINE		QUANTITY TABULATION NOTE
	FILL LINE		
	SAW CUT LINE		

GENERAL NOTES:

- TESC MEASURES SHALL BE INSTALLED PRIOR TO COMMENCING SITE PREPARATION WORK.
- FOR PERMITTED ACTIVITIES BEYOND CLEAR AND GRUB LIMITS,SEE ENVIRONMENTAL COMPLIANCE PLAN SHEET EC1.
- FOR STATION LIMITS OF PAVEMENT REMOVAL,SEE SHEET RS1.
- EXISTING STORMWATER PIPE TO BE REMOVED AND REROUTED,SEE SHEET CSP1 FOR REMOVAL LIMITS AND FULL INFORMATION.
- ABANDONED CASCADE NATURAL GAS LINE TO BE REMOVED.SEE SPECIAL PROVISION REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
- EXISTING CULVERTS TO REMAIN IN PLACE.FOR SLIPLINE DETAIL SEE SHEET CRP1.FOR FILL DETAIL SEE SHEET RS2.

c:\users\nguyea\pwwsdot\0460269\XL6478_101_PS_SP.dgn

FILE NAME	XL6478_101_PS_SP.dgn	REGION NO.	10	STATE	WASH
TIME	12:10:16 PM	JOB NUMBER	22A040	FED. AID PROJ. NO.	
DATE	12/27/2022	CONTRACT NO.		LOCATION NO.	
PLOTTED BY	nguyea				
DESIGNED BY	A. NGUYEN				
ENTERED BY	A. NGUYEN				
CHECKED BY	S. TRAX				
PROJ. ENGR.	M. AMBLER				
REGIONAL ADM.	B. NIELSEN				
REVISION		DATE		BY	



SR 539
DUFFNER DITCH
FISH PASSAGE

SITE PREPARATION PLAN

PLAN REF NO
SP1
SHEET
14
OF
58
SHEETS

BEGIN CONSTRUCTION
DD 2+39.00 =
A 522+95.75 (171.44' LT)

TEMPORARY CONSTRUCTION
EASEMENT



0 25 50
SCALE IN FEET

TEMPORARY CONSTRUCTION
EASEMENT

DD LINE

SR 539 A LINE

DUFFNER DITCH

TEMPORARY CONSTRUCTION EASEMENT

END CONSTRUCTION
DD 5+34.41 =
A 524+89.21 (36.30' RT)

LEGEND

	WSDOT RIGHT OF WAY		OP	OP	OVERHEAD POWER LINE
	CONSTRUCTION CENTERLINE		G	G	EXISTING GAS LINE
	STREAM CENTERLINE		BT	BT	EXISTING UNDERGROUND CABLE TV
	TEMPORARY EASEMENT		OT	OT	EXISTING OVERHEAD CABLE TV
	EXISTING STREAM CENTERLINE		ST	ST	EXISTING STORM SEWER
	EXISTING PAVEMENT EDGE				EXISTING GUY ANCHOR
	EXISTING DRIVEWAY				EXISTING UTILITY POLE
	EXISTING CULVERT				EXISTING UTILITY VAULT
	EXISTING BURIED FIBER				EXISTING WATER METER
	EXISTING WATER LINE				EXISTING WATER VALVE
	EXISTING UNDERGROUND POWER				EXISTING UNDERGROUND TANK
	EXISTING OVERHEAD POWER				EXISTING POWER POLE
					EXISTING CATCH BASIN

GENERAL NOTES:

- TESC MEASURES SHALL BE INSTALLED PRIOR TO COMMENCING SITE PREPARATION WORK.
- FOR PERMITTED ACTIVITIES BEYOND CLEAR AND GRUB LIMITS,SEE ENVIRONMENTAL COMPLIANCE PLAN SHEET EC1.
- LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION

c:\users\nguyea\pwwsdot\0460269\XL6478_110_PS_UT.dgn

FILE NAME	XL6478_110_PS_UT.dgn	REGION NO.	10	STATE	WASH
TIME	12:29:50 PM	JOB NUMBER	22A040	FED. AID PROJ. NO.	
DATE	12/27/2022	CONTRACT NO.		LOCATION NO.	
PLOTTED BY	nguyea				
DESIGNED BY	A. NGUYEN				
ENTERED BY	A. NGUYEN				
CHECKED BY	S. TRAX				
PROJ. ENGR.	M. AMBLER				
REGIONAL ADM.	B. NIELSEN				
REVISION		DATE		BY	

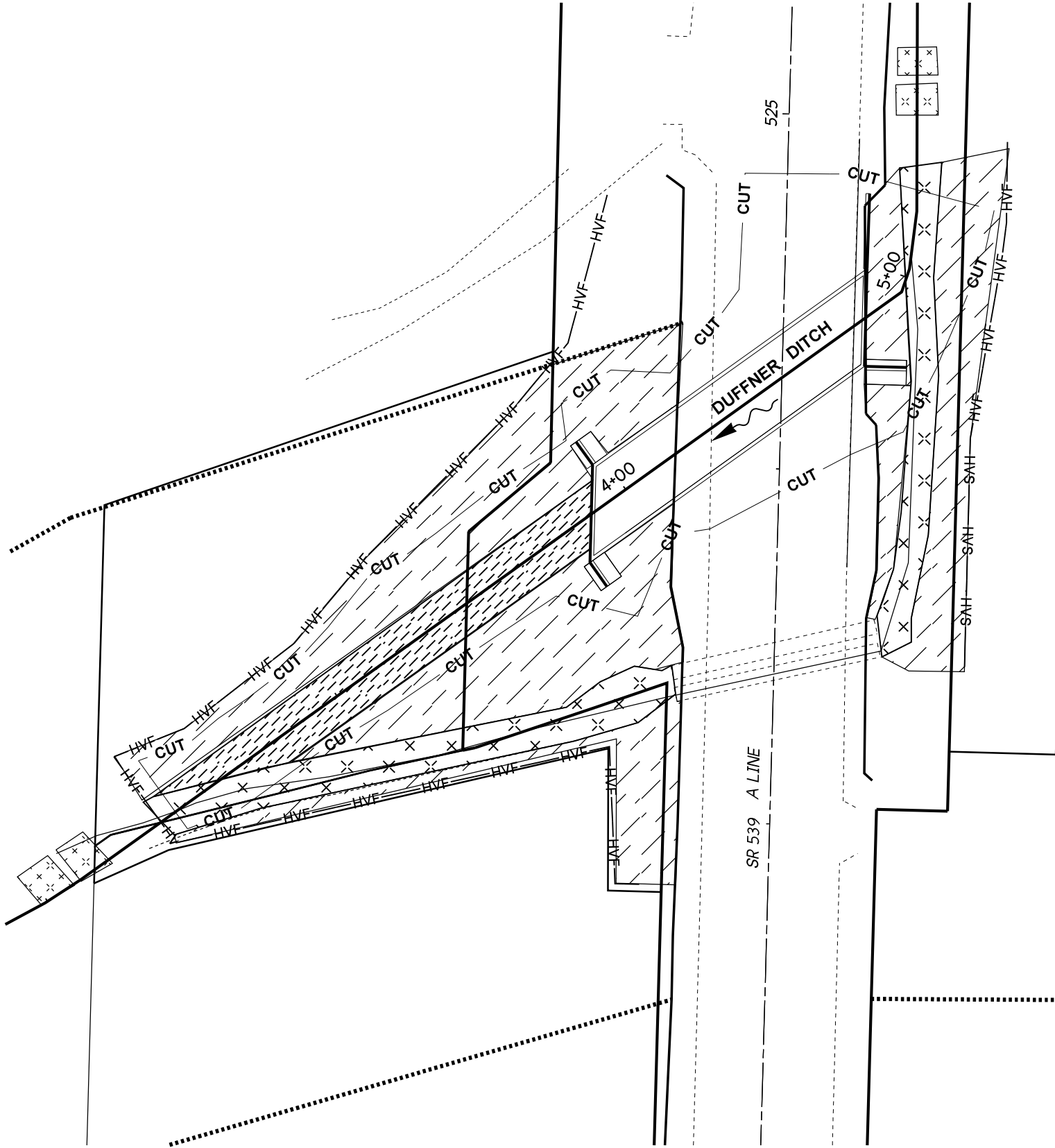


SR 539
DUFFNER DITCH
FISH PASSAGE

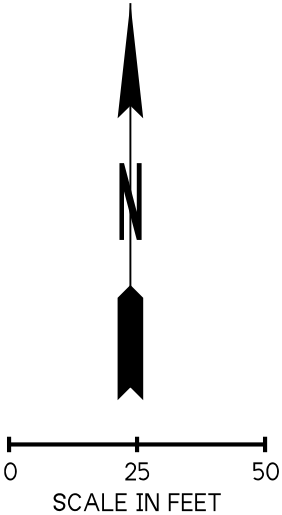
EXISTING UTILITES PLAN

PLAN REF NO
UT1
SHEET
15
OF
58
SHEETS

c:\users\nguyeaad\pw_wsdot\0460269\XL6478_140_PS_EC.dgn

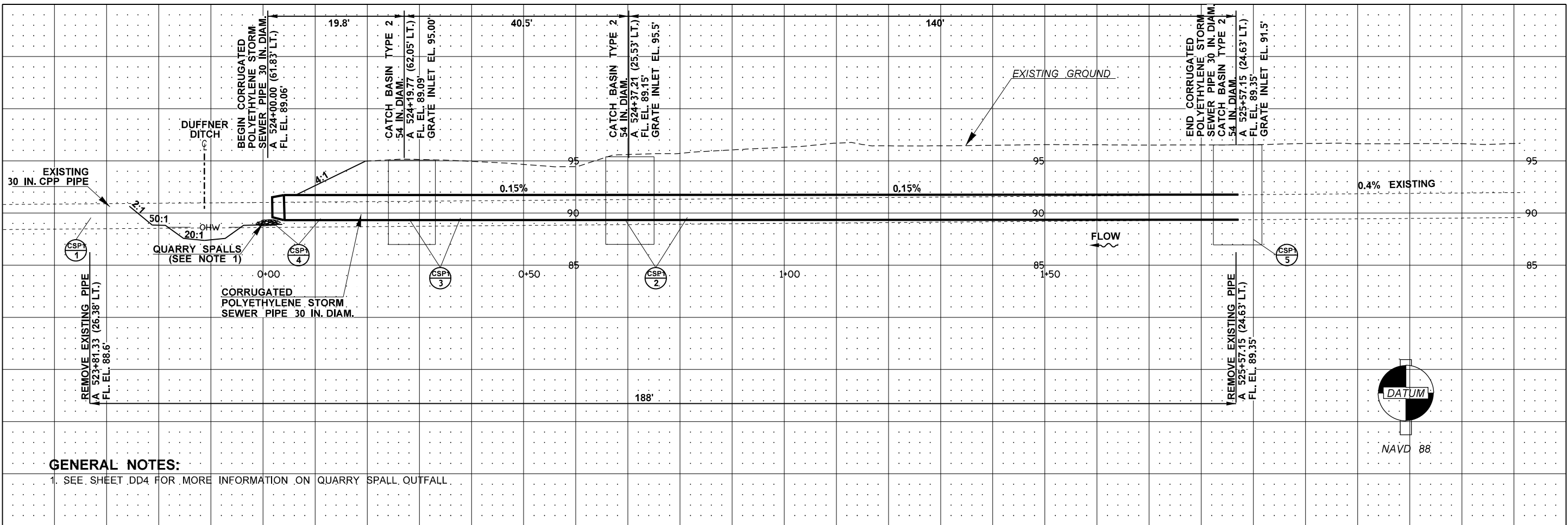
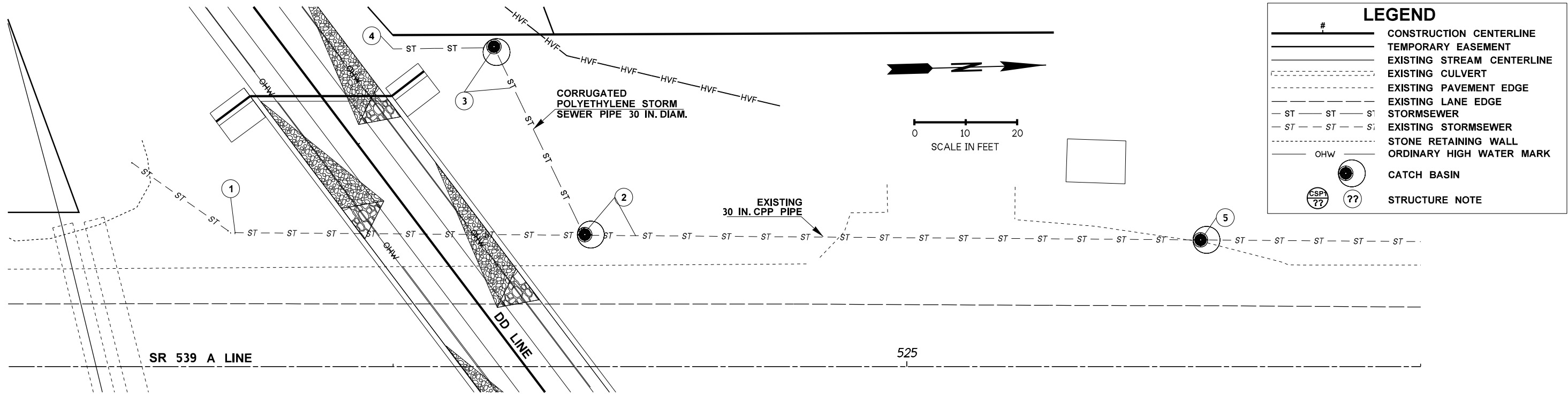


IMPACTS SUMMARY			
SENSITIVE AREA	DUFFNER DITCH SQ.FT. (ACRES)	LEGEND	WORK SUMMARY PERMITTED WORK ACTIVITES
DOE CATEGORY	F		
TEMPORARY STREAM IMPACT	416.9 (0.0096)		FISH EXCLUSION, EQUIPMENT OPERATIONS.
PERMANENT STREAM IMPACT	2813.1 (0.0646)		EXCAVATION, FILL, CLEARING, GRUBBING, EQUIPMENT OPERATIONS, AND PLANTING.
TEMPORARY STREAM BUFFER IMPACT	10188.2 (0.2339)		EXCAVATION, FILL, CLEARING, GRUBBING, AND EQUIPMENT OPERATIONS.
PERMANENT STREAM BUFFER IMPACT	1907.6 (0.0438)		CLEARING, GRUBBING, EQUIPMENT OPERATIONS, PLANTING, AND CONVERSION TO STREAM



LEGEND	
WSDOT ROW	EXISTING THALWEG
TEMP CONSTRUCTION EASEMENT	PROPOSED STREAM THALWEG
PAVED ROAD EDGE	CULVERT WINGWALLS
GRAVEL EDGE	ROADWAY PRISM
CUT CUT LINE	HIGH VISIBILITY SILT FENCE
SR 539 CENTERLINE	STREAM BUFFER (100 FT)
HIGH VISIBILITY FENCE	
EXISTING CULVERT	

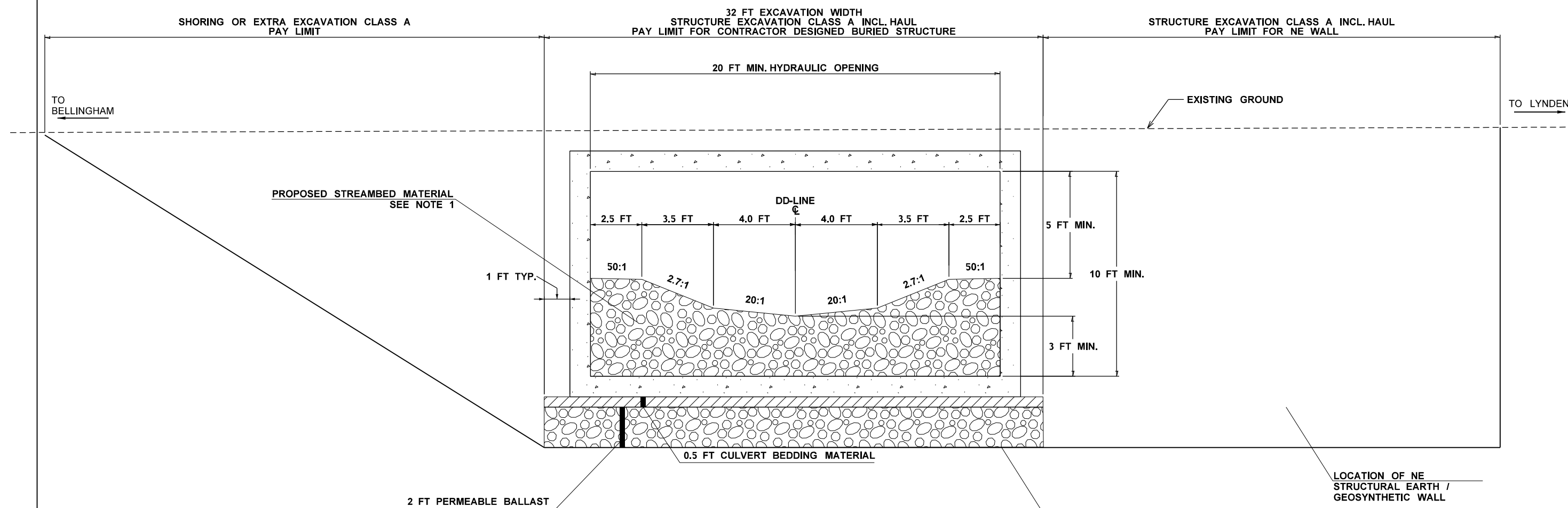
FILE NAME XL6478_140_PS_EC.dgn				REGION NO. 10	STATE WASH	FED. AID PROJ. NO.			SR 539 DUFFNER DITCH FISH PASSAGE		PLAN REF NO EC1
TIME 10:44:46 AM				JOB NUMBER 22A040					ENVIRONMENTAL COMPLIANCE PLAN		SHEET 17 OF 58 SHEETS
DATE 1/17/2023				CONTRACT NO.	LOCATION NO.						
PLOTTED BY nguyeaad											
DESIGNED BY A. NGUYEN											
ENTERED BY A. NGUYEN											
CHECKED BY S. TRAX											
PROJ. ENGR. M. AMBLER											
REGIONAL ADM. B. NIELSEN	REVISION	DATE	BY								



GENERAL NOTES:

1. SEE SHEET DD4 FOR MORE INFORMATION ON QUARRY SPALL OUTFALL.

FILE NAME: XL6478_191_PS_CSP1.dgn				REGION NO. 10	STATE WASH	FED. AID PROJ. NO.			SR 539 DUFFNER DITCH FISH PASSAGE	PLAN REF NO. CSP1
TIME: 12:51:59 AM										
DATE: 1/9/2023										
PLOTTED BY: nguyea										
DESIGNED BY: A. NGUYEN								SR 539 DUFFNER DITCH FISH PASSAGE	STORM SEWER PLAN	SHEET 20 OF 58 SHEETS
ENTERED BY: A. NGUYEN										
CHECKED BY: S. TRAX										
PROJ. ENGR. M. AMBLER										
REGIONAL ADM. B. NIELSEN										
REVISION				DATE	BY	CONTRACT NO. 22A040	LOCATION NO.	P.E. STAMP BOX	P.E. STAMP BOX	

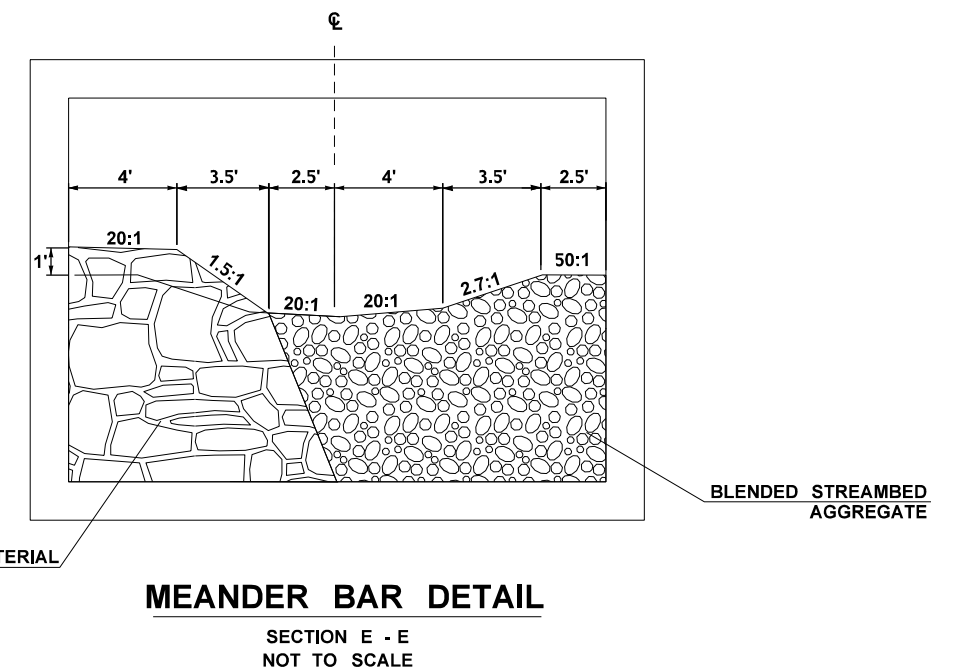
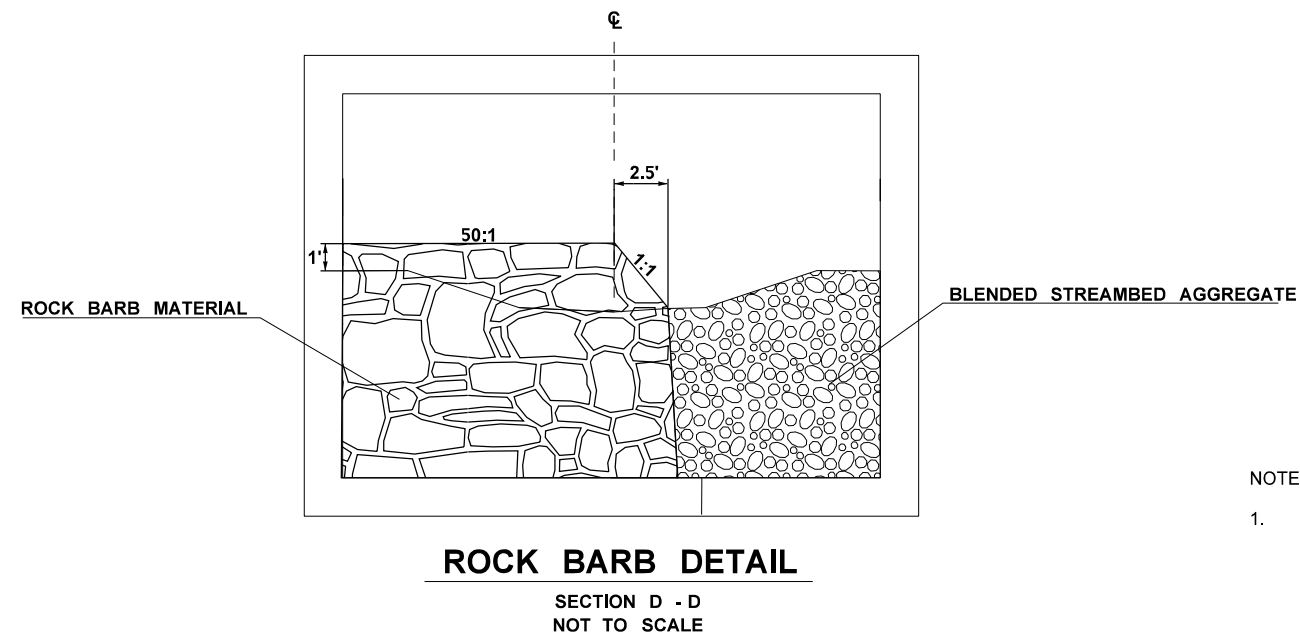
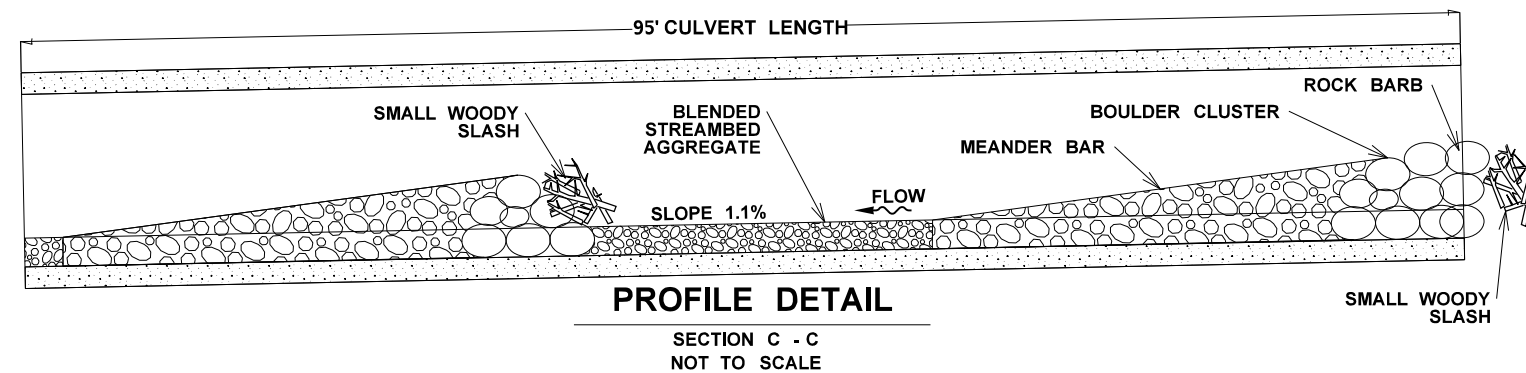
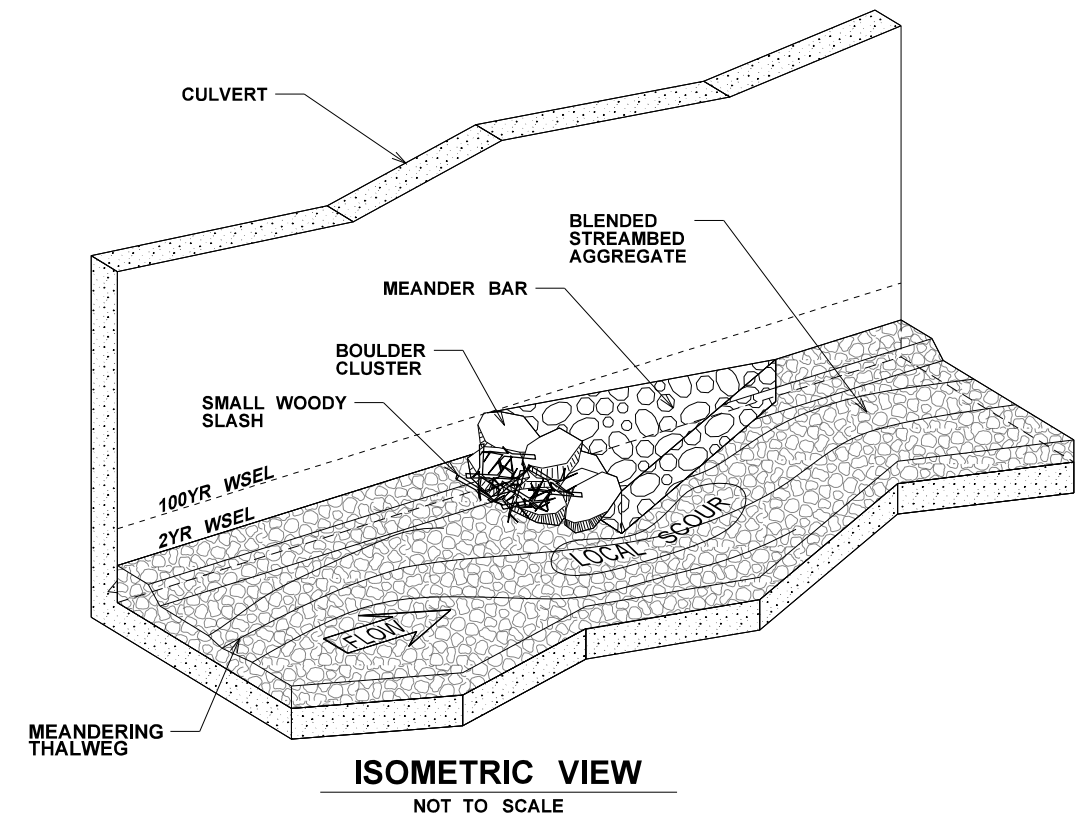
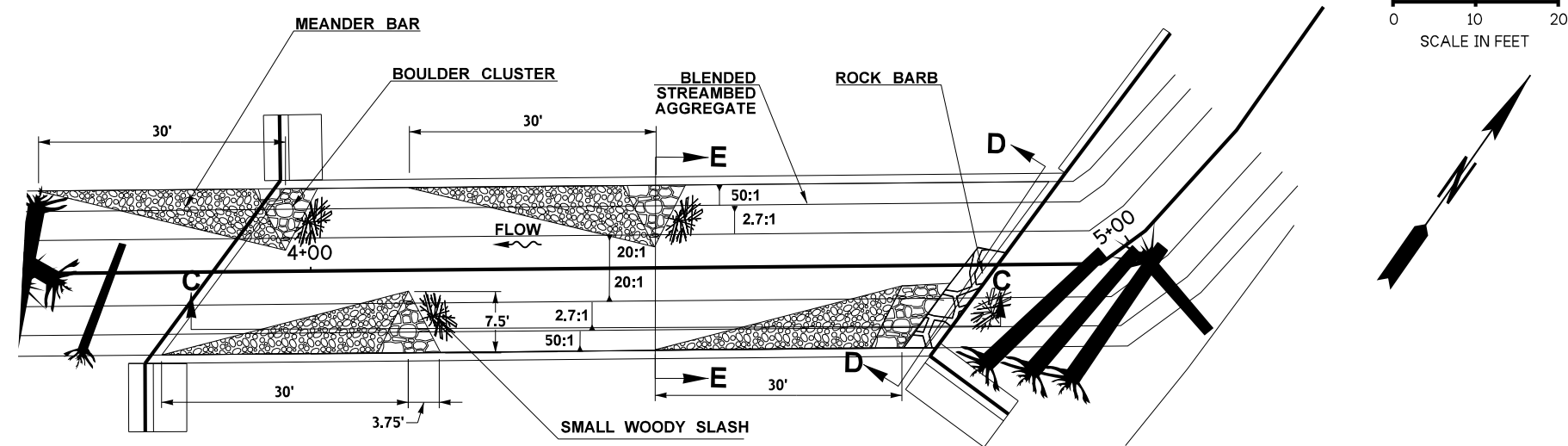


STREAM SECTION B: CULVERT TYPICAL CUT SECTION
DD 3+88.13 TO 4+83.19
NOT TO SCALE

- NOTES:
- SEE SHEET DD2-DD3 FOR TYPICAL STREAM SECTIONS AND MEANDER BAR DETAILS.
 - SEE SPECIAL PROVISION "AGGREGATES FOR STREAMS, RIVERS, AND WATERBODIES." STREAMBED MATERIAL FINAL INSTALLATION WILL PROVIDE A WELL GRADED MIX OF STREAMBED SEDIMENT, COBBLES, AND BOULDERS, WITH A 1 IN LIFT OF STREAMBED SAND BETWEEN EACH LIFT OF STREAMBED MATERIAL.
 - SEE SHEET UT1 FOR LOCATION OF DEACTIVATED FACILITIES.
 - SEE SHEET WD3 FOR MORE INFORMATION ON NE MSE WALL.

c:\users\nguyea\pwworkspace\0460269\XL6478_192_PS_DD_001.dgn

FILE NAME XL6478_192_PS_DD_001.dgn				REGION NO. 10	STATE WASH	FED. AID PROJ. NO.				SR 539 DUFFNER DITCH FISH PASSAGE		PLAN REF NO DD1
TIME 5:08:58 PM				JOB NUMBER 22A040								SHEET 21 OF 58 SHEETS
DATE 12/27/2022				CONTRACT NO.	LOCATION NO.							
PLOTTED BY nguyea										DRAINAGE DETAILS		
DESIGNED BY A. NGUYEN												
ENTERED BY A. NGUYEN												
CHECKED BY S. TRAX												
PROJ. ENGR. M. AMBLER												
REGIONAL ADM. B. NIELSEN												
REVISION				DATE	BY							



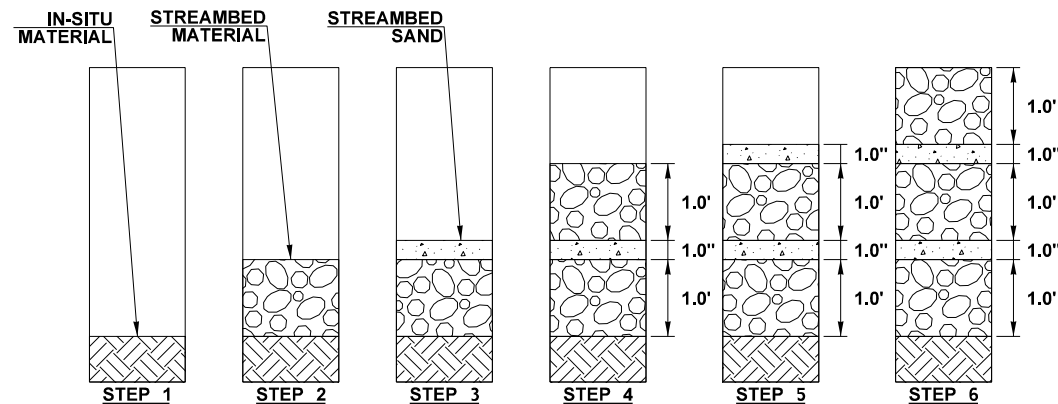
NOTES:

1. SEE SPECIAL PROVISION "AGGREGATES FOR STREAMS, RIVERS, AND WATERBODIES." STREAMBED MATERIAL FINAL INSTALLATION WILL PROVIDE A WELL GRADED MIX OF STREAMBED SEDIMENT, COBBLES, AND BOULDERS, WITH A 1 IN LIFT OF SAND BETWEEN EACH LIFT OF STREAMBED AND COARSE BAR MATERIAL.

FILE NAME				XL6478_193_PS_DD_002.dgn				REGION NO.	STATE	FED. AID PROJ. NO.				SR 539 DUFFNER DITCH FISH PASSAGE	DD2				
TIME	2:22:39 PM			DATE	1/10/2023			10	WASH							JOB NUMBER	22A040	SHEET	22
PLOTTED BY	nguyea			DESIGNED BY	A. NGUYEN			CONTRACT NO.	LOCATION NO.							DATE	BY	OF	58
ENTERED BY	A. NGUYEN			CHECKED BY	S. TRAX													SHEETS	DRAINAGE DETAILS
PROJ. ENGR.	M. AMBLER			REGIONAL ADM.	B. NIELSEN			REVISION	DATE	BY									

1. SEE SPECIAL PROVISION "AGGREGATES FOR STREAMS, RIVERS, AND WATERBODIES." STREAMBED MATERIAL FINAL INSTALLATION WILL PROVIDE A WELL GRADED MIX OF STREAMBED SEDIMENT, COBBLES, AND BOULDERS, WITH A 1 IN LIFT OF STREAMBED SAND BETWEEN EACH LIFT OF STREAMBED MATERIAL.
2. FROM DD 2+44.00 TO DD 2+56.00 EVENLY TAPER FROM EXISTING TO SECTION A.
3. FROM DD 5+06.80 TO DD 5+18.80 EVENLY TAPER FROM SECTION A TO EXISTING.
4. FROM DD 3+67.00 TO DD 3+88.11 TRANSITION THE SLIDE SLOPE FROM 2:1 TO 4:1 TO GIVE SPACE FOR STORMSEWER OUTLET. SEE CSP1 FOR MORE INFORMATION ON STORMSEWER.

DD 2+44.00 TO 3+88.13
DD 4+83.19 TO 5+18.8
NOT TO SCALE



NOT TO SCALE

STEP 1
EXCAVATE CHANNEL TO ACCOMMODATE
STREAMBED MATERIAL.

STEP 2
PLACE 1.0' LIFT OF STREAMBED MATERIAL.

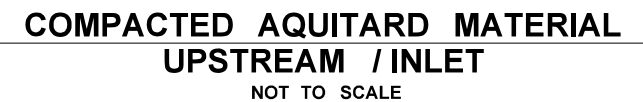
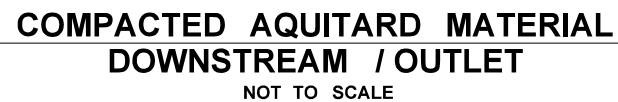
STEP 3
PLACE 1.0" OF STREAMBED SAND UNIFORMLY
OVER STREAMBED MATERIAL. APPLY WATER
TO STREAMBED SAND. SEE DETAIL NOTE 2.

STEP 4
(REPEAT STEP 2), SEE NOTE 3

STEP 5
(REPEAT STEP 3), SEE NOTE 3

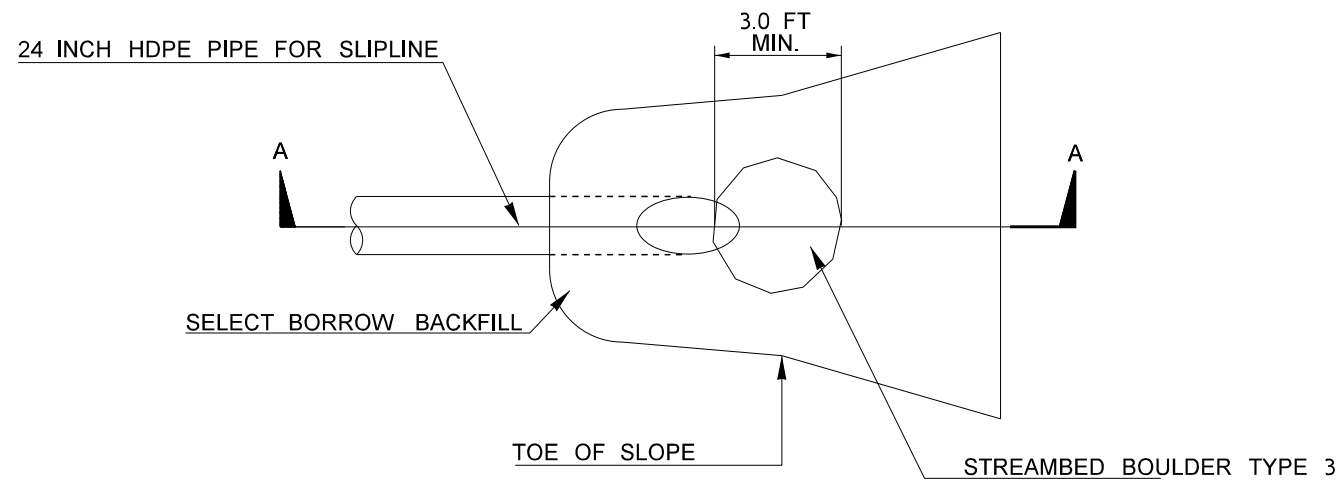
STEP 6
PLACE REMAINING 1.0' LIFT OF STREAMBED
MATERIAL GRADE AS NOTED BELOW.

1. SLASH FROM THE TREES MAY BE INCORPORATED INTO STREAMBED MIX AS DIRECTED BY ENGINEER.
2. APPLY WATER TO SAND LAYERS TO FACILITATE FILLING INTERSTITIAL VOIDS. SEE SPECIAL PROVISIONS "AGGREGATES FOR STREAMS, RIVERS, AND WATERBODIES" FOR MORE DETAILS.
3. STEPS 2 AND 3 SHALL BE REPEATED AS NECESSARY FOR PLACEMENT OF STREAMBED TO FULL DEPTH.

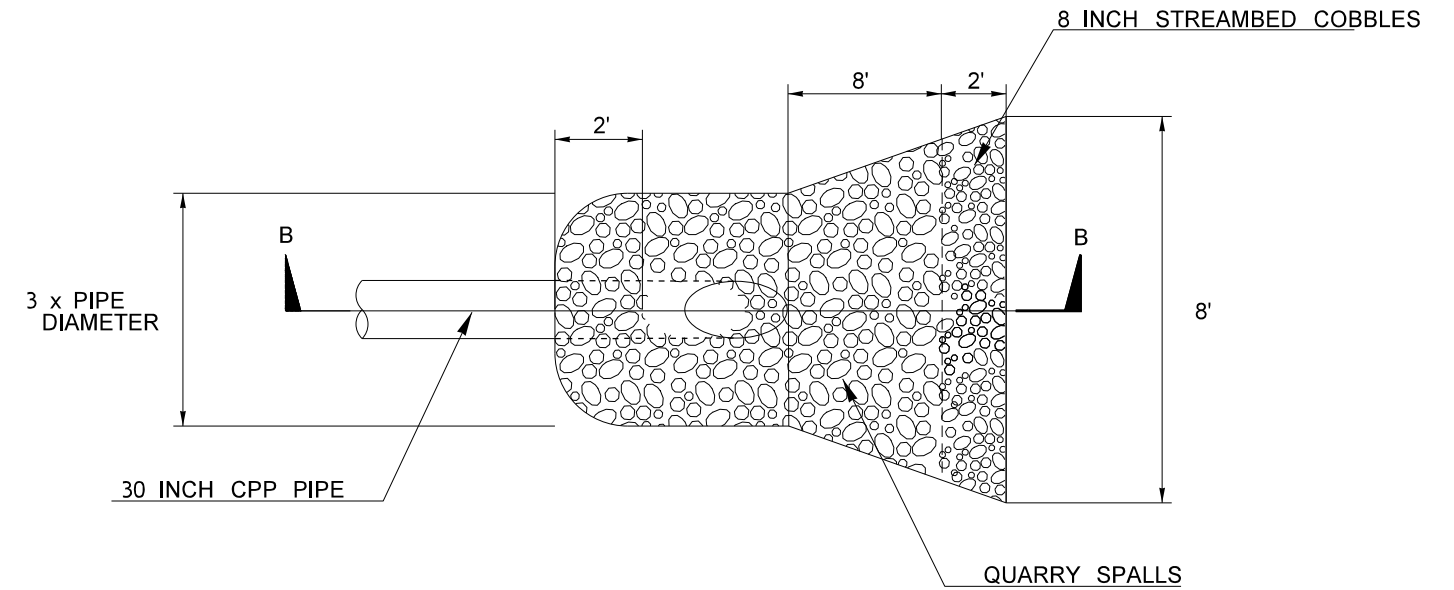


1. BACKFILL AND COMPACT WITH NATIVE SILTY MATERIAL OR AS DIRECTED BY ENGINEER TO PREVENT SUBSURFACE FLOWS.
2. SEE SPECIAL PROVISION "BURIED STRUCTURES." EXACT LIMITS AND LOCATIONS OF AQUITARD WILL BE STAKED BY THE ENGINEER.

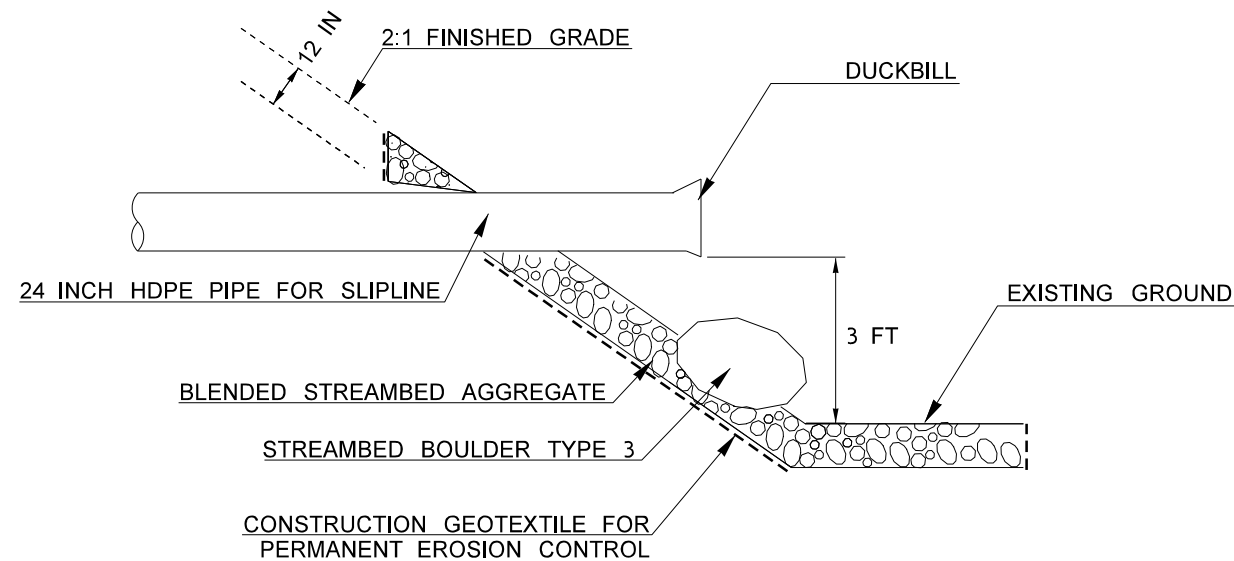
c:\users\nguyeaad\pw_wsdo\td0460269\XL6478_194_PS_DD_003.dgn



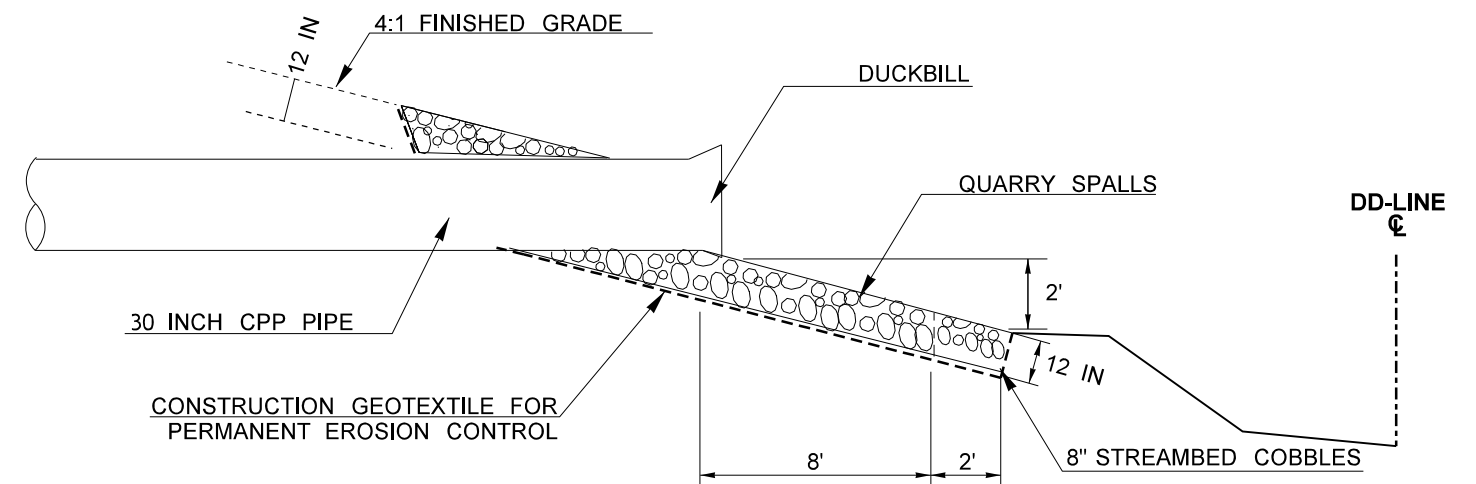
PLAN VIEW - 3 MAN BOULDER PLACEMENT
AT CULVERT SLIPLINE OUTFALL
NOT TO SCALE



PLAN VIEW - QUARRY SPALLS PLACEMENT
AT STORMSEWER OUTFALL
NOT TO SCALE



DETAIL VIEW - STREAMBED BOULDER TYPE #PLACEMENT
AT SLIPLINE CULVERT OUTFALL
SECTION A-A

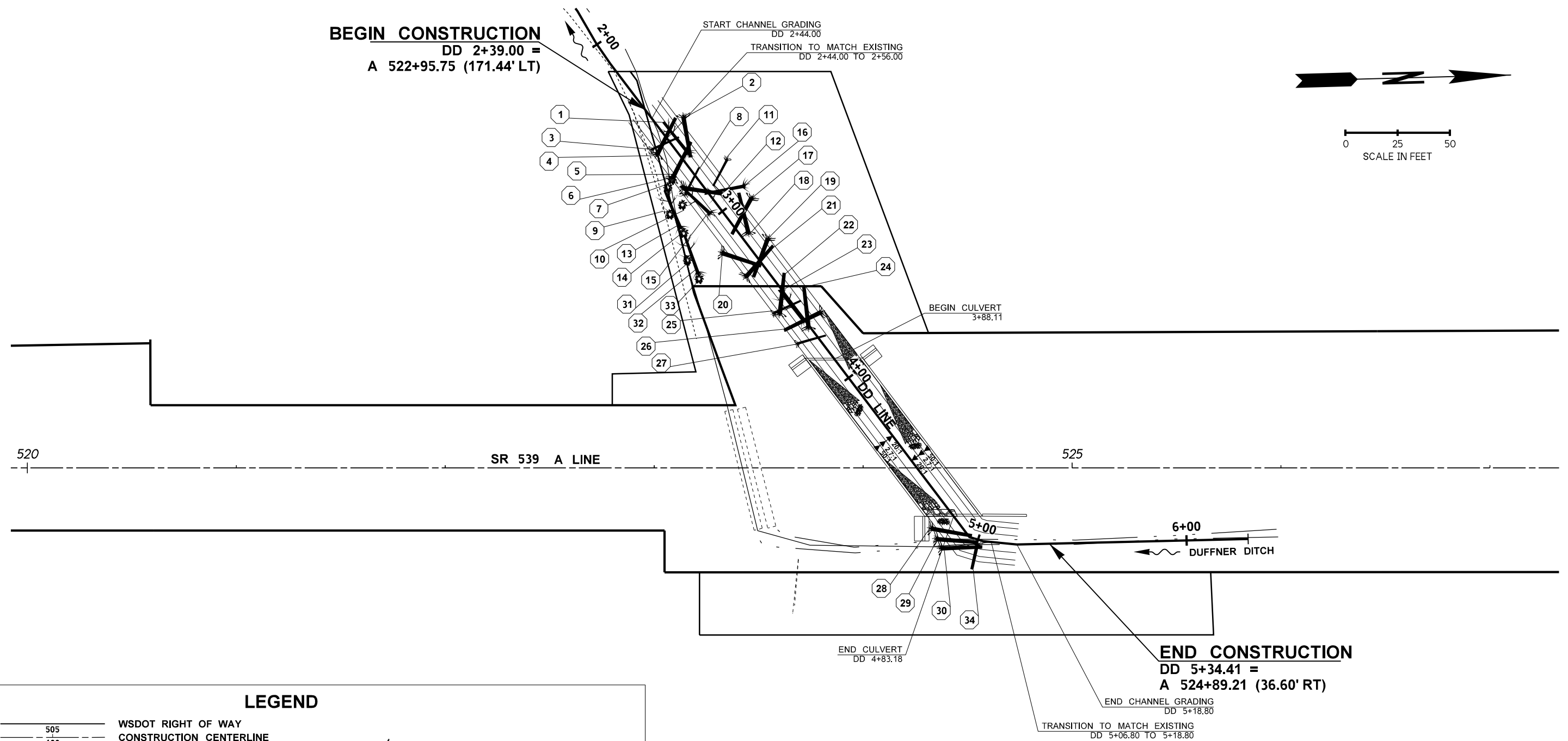


DETAIL VIEW - QUARRY SPALLS PLACEMENT
AT STORMSEWER OUTFALL
SECTION B-B

NOTES

1. SEE SHEET CRP1 FOR PLAN AND PROFILE OF SLOPLINE CULVERT
2. SEE SHEET CSP1 FOR PLAN AND PROFILE OF STORMSEWER.

FILE NAME				XL6478_195_PS_DD_004.dgn				REGION NO.		STATE		FED. AID PROJ. NO.		PLAN REF NO.	
TIME				9:26:01 AM				10		WASH				DD4	
DATE				1/17/2023				JOB NUMBER		22A040				SHEET 24 OF 58 SHEETS	
PLOTTED BY				nguyeaa				CONTRACT NO.		LOCATION NO.				DRAINAGE DETAILS	
DESIGNED BY				A. NGUYEN											
ENTERED BY				A. NGUYEN						SEE SHEET CT1 DATE		SR 539 DUFFNER DITCH FISH PASSAGE			
CHECKED BY				S. TRAX											
PROJ. ENGR.				M. AMBLER											
REGIONAL ADM.				B. NIELSEN				REVISION		DATE		BY			



c:\users\nguyea\pwwsdot\0460269\XL6478_197_PS_CR_2.dgn

LWM NO.	TYPE	STATION/ OFFSET	DBH (MIN.)	LENGTH (MIN.)	ROOT WAD DIAMETER	MINIMUM DEPTH BELOW THALWEG OF LOWEST POINT OF LOG	LWM NO.	TYPE	STATION/ OFFSET	DBH (MIN.)	LENGTH (MIN.)	ROOT WAD DIAMETER	MINIMUM DEPTH BELOW THALWEG OF LOWEST POINT OF LOG
1	D	2+70 (2' LT)	18 IN	20 FT	4.5 FT	2.7 FT	19	B	3+21 (12' LT)	24 IN	20 FT	6 FT	2.1 FT
2	B	2+50 (12' LT)	24 IN	20 FT	6 FT	1.2 FT	20	B	3+16 (13' RT)	24 IN	20 FT	6 FT	4.9 FT
3	E	2+55 (10' RT)	12 IN	15 FT	2.5 FT	4.7 FT	21	B	3+32 (11' RT)	24 IN	20 FT	6 FT	-0.6 FT
4	B	2+70 (9' RT)	24 IN	20 FT	6 FT	-1.8 FT	22	B	3+56 (9' RT)	24 IN	20 FT	6 FT	8.5 FT
5	B	2+70 (9' RT)	24 IN	20 FT	6 FT	2.7 FT	23	D	3+66 (1' RT)	18 IN	20 FT	4.5 FT	3.3 FT
6	F	2+72 (11' RT)	12 IN	8 FT	4 FT	8.2 FT	24	B	3+70 (2' RT)	24 IN	20 FT	6 FT	4.3 FT
7	F	2+75 (15' RT)	12 IN	8 FT	4 FT	6.3 FT	25	E	3+52 (10' RT)	12 IN	15 FT	2.5 FT	4.3 FT
8	E	2+83 (11' RT)	12 IN	15 FT	2.5 FT	0.5 FT	26	B	3+67 (9' LT)	24 IN	20 FT	6 FT	-1.7 FT
9	F	2+86 (13' RT)	12 IN	8 FT	4 FT	5.2 FT	27	E	3+71 (11' RT)	12 IN	15 FT	2.5 FT	4.3 FT
10	F	2+86 (23' RT)	12 IN	8 FT	4 FT	6.0 FT	28	B	4+81 (12' RT)	24 IN	20 FT	6 FT	-0.8 FT
11	E	2+80 (17' LT)	12 IN	15 FT	2.5 FT	-1.5 FT	29	B	4+87 (14' RT)	24 IN	20 FT	6 FT	-0.8 FT
12	B	2+79 (10' RT)	24 IN	20 FT	6 FT	6.5 FT	30	B	4+91 (14' RT)	24 IN	20 FT	6 FT	-1.0 FT
13	D	2+92 (21' RT)	18 IN	20 FT	4.5 FT	-1.7 FT	31	F	3+08 (28' RT)	12 IN	8 FT	4 FT	-2.1 FT
14	F	2+97 (23' RT)	12 IN	8 FT	4 FT	6.9 FT	32	D	3+16 (28' RT)	18 IN	20 FT	4.5 FT	5.9 FT
15	D	2+97 (6' RT)	18 IN	20 FT	4.5 FT	0.0 FT	33	F	3+19 (29' RT)	12 IN	8 FT	4 FT	6.4 FT
16	D	2+97 (16' LT)	18 IN	20 FT	4.5 FT	-2.1 FT	34	D	5+00 (1' RT)	18 IN	15 FT	4.5 FT	1.0 FT
17	B	3+03 (15' LT)	24 IN	20 FT	6 FT	6.7 FT							
18	B	3+16 (4' LT)	24 IN	20 FT	6 FT	1.2 FT							

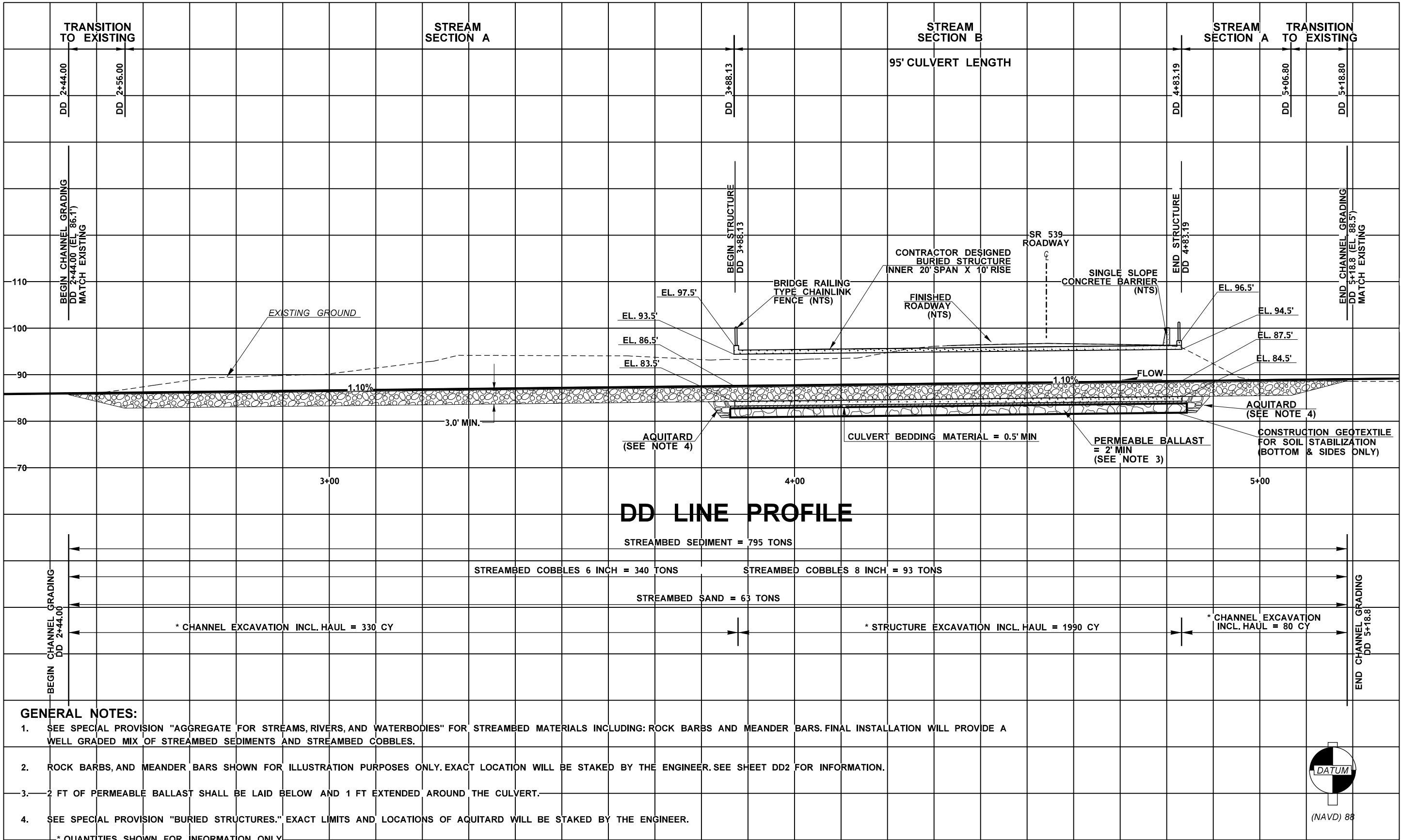
GENERAL NOTES:

1. LOCATION AND ORIENTATIONS OF LARGE WOODY MATERIAL (LWM) AND PREFORMED SCOUR POOLS AS SHOWN ON THIS SHEET ARE APPROXIMATE. THEY SHALL BE STAKED PER PLAN WITH FINAL LOCATIONS AND ORIENTATIONS AS DIRECTED BY THE ENGINEER. SEE CD1-CD5 FOR LWM DETAILS. SEE SPECIAL PROVISION "LARGE WOODY MATERIAL (LWM) STRUCTURES".
2. STATION / OFFSET LOCATION IS MEASURED FROM THE ROOTWAD.
3. FOR MINIMUM DEPTH BELOW THALWEG OF LOWEST POINT OF LOG BOLE: A POSITIVE VALUE INDICATES DISTANCE BELOW CHANNEL THALWEG. A NEGATIVE VALUE INDICATES DISTANCE ABOVE CHANNEL THALWEG.
4. LWM D INCLUDES BRANCHES.

*DBH: DIAMETER AT BREAST HEIGHT

FILE NAME XL6478_197_PS_CR_2.dgn				REGION NO. 10	STATE WASH	FED. AID PROJ. NO.				SR 539 DUFFNER DITCH FISH PASSAGE		PLAN REF NO CR2
TIME 9:32:20 AM				JOB NUMBER 22A040								
DATE 1/10/2023				CONTRACT NO.	LOCATION NO.							
PLOTTED BY nguyea												
DESIGNED BY A. NGUYEN												SHEET 26 OF 58 SHEETS
ENTERED BY A. NGUYEN												
CHECKED BY S. TRAX												
PROJ. ENGR. M. AMBLER												
REGIONAL ADM. B. NIELSEN												
REVISION				DATE		BY	STREAM RESTORATION PLAN					

c:\users\nguyeaad\pw_wsdot\0460269\XL6478_198_PS_CP.dgn



FILE NAME				XL6478_198_PS_CP.dgn	REGION NO.	STATE	FED. AID PROJ. NO.		CONTRACT NO.	LOCATION NO.	DATE	BY	REVISION	DATE	BY	PLAN REF NO.	SHEET 27 OF 58 SHEETS
TIME				11:15:24 AM													
DATE				1/9/2023	10	WASH			22A040								CP1
PLOTTED BY				nguyeaad													
DESIGNED BY				A. NGUYEN	22A040												
ENTERED BY				A. NGUYEN													
CHECKED BY				S. TRAX													
PROJ. ENGR.				M. AMBLER													
REGIONAL ADM.				B. NIELSEN													

WSDOT

FILE NAME

XL6478_198_PS_CP.dgn

TIME

11:15:24 AM

DATE

1/9/2023

PLOTTED BY

nguyeaad

DESIGNED BY

A. NGUYEN

ENTERED BY

A. NGUYEN

CHECKED BY

S. TRAX

PROJ. ENGR.

M. AMBLER

REGIONAL ADM.

B. NIELSEN

REGION NO.

10

STATE

WASH

FED. AID PROJ. NO.

CONTRACT NO.

22A040

LOCATION NO.

DATE

BY

WILIE HEILMAN

STATE OF WASHINGTON

REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

NEILSA JANET AMBLER

STATE OF WASHINGTON

REGISTERED PROFESSIONAL ENGINEER

SEE SHEET CT1

DATE

P.E. STAMP BOX

SR 539

DUFFNER DITCH

FISH PASSAGE

STREAM RESTORATION PROFILE

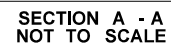
PLAN REF NO.

CP1

SHEET 27

OF 58

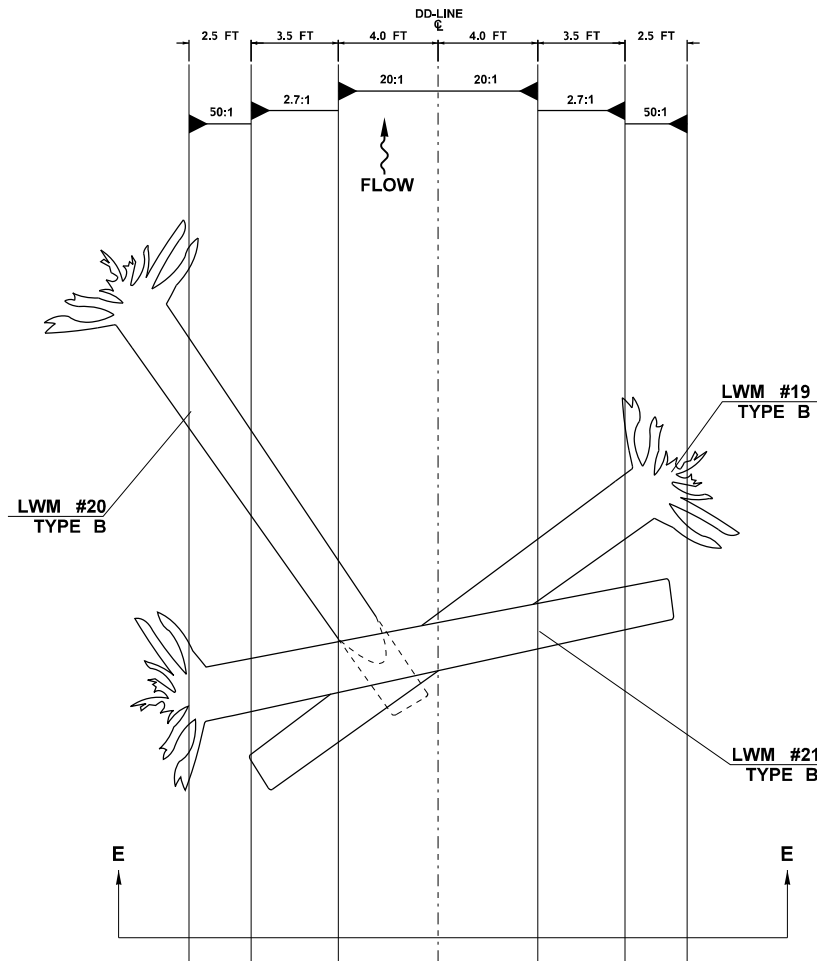
SHEETS



1. SEE SPECIAL PROVISION "LARGE WOODY MATERIAL (LWM) STRUCTURES" FOR LWM CONSTRUCTION REQUIREMENTS.
2. SEE SHEET CR1-CR2 FOR ADDITIONAL DETAILS REGARDING DIMENSIONS, ANGLE OF PLACEMENT, DEPTH OF BURIAL, AND ORIENTATION WITH RESPECT TO THALWEG OF LWM PIECES.
3. FINAL PLACEMENT OF LWM INSTALLATIONS TO BE FIELD STAKED BY THE ENGINEER.
4. SEE DD3 FOR INFORMATION ON STREAM SECTIONS.

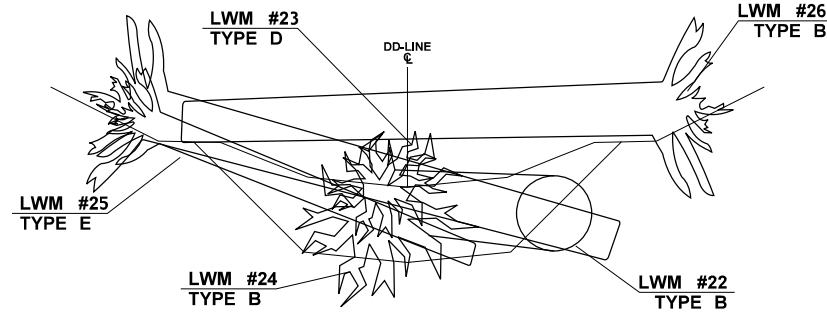
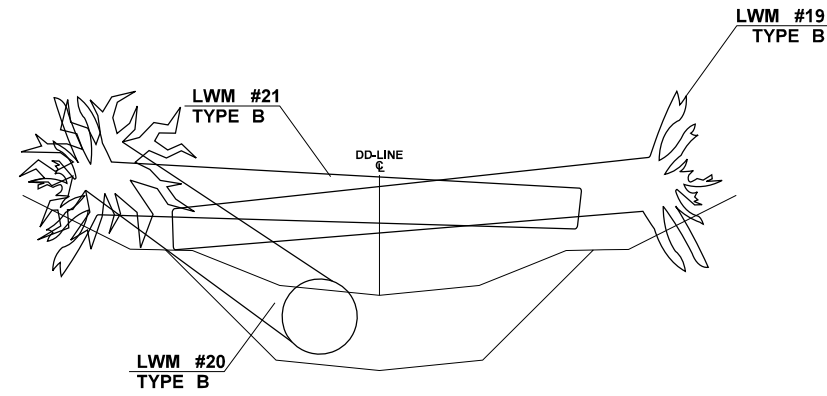


AN REF NO
CD1
SHEET 28 OF 58 SHEETS



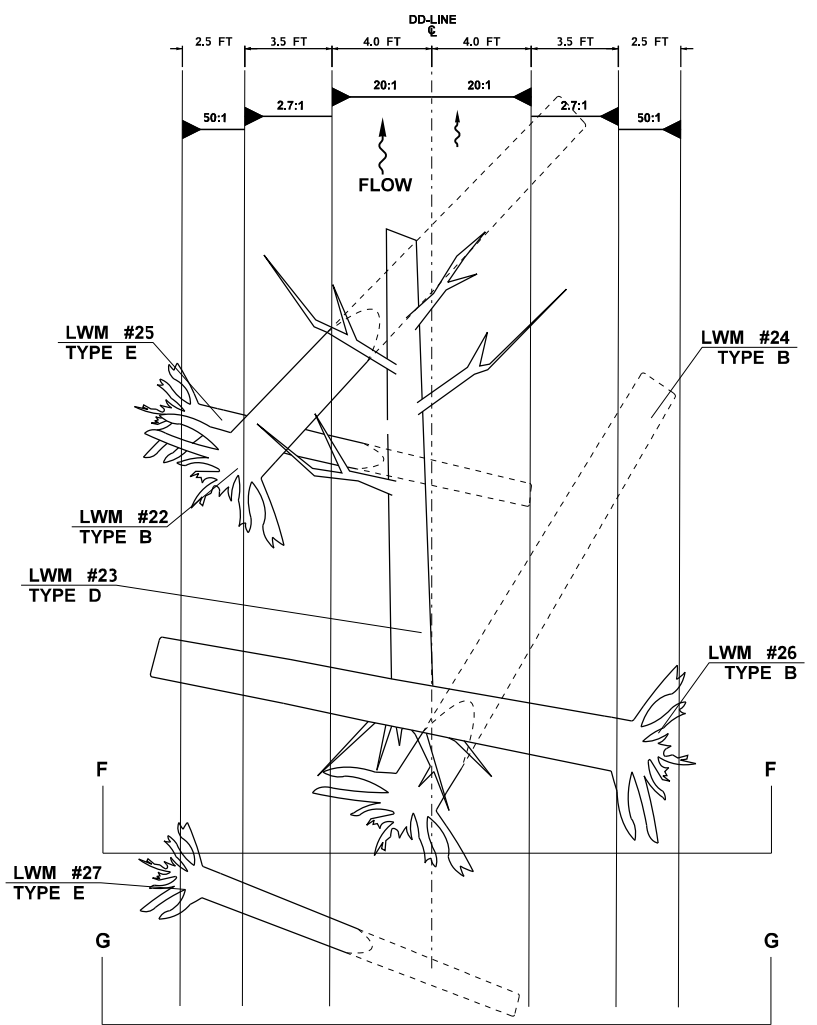
LARGE WOODY MATERIAL 19,20,21

SECTION E - E
NOT TO SCALE



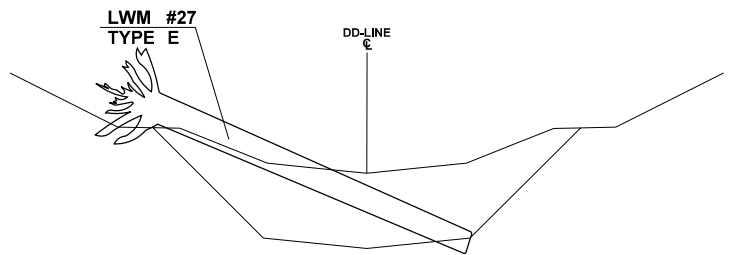
LARGE WOODY MATERIAL 22,23,24,25,26

SECTION F - F
NOT TO SCALE



LARGE WOODY MATERIAL 27

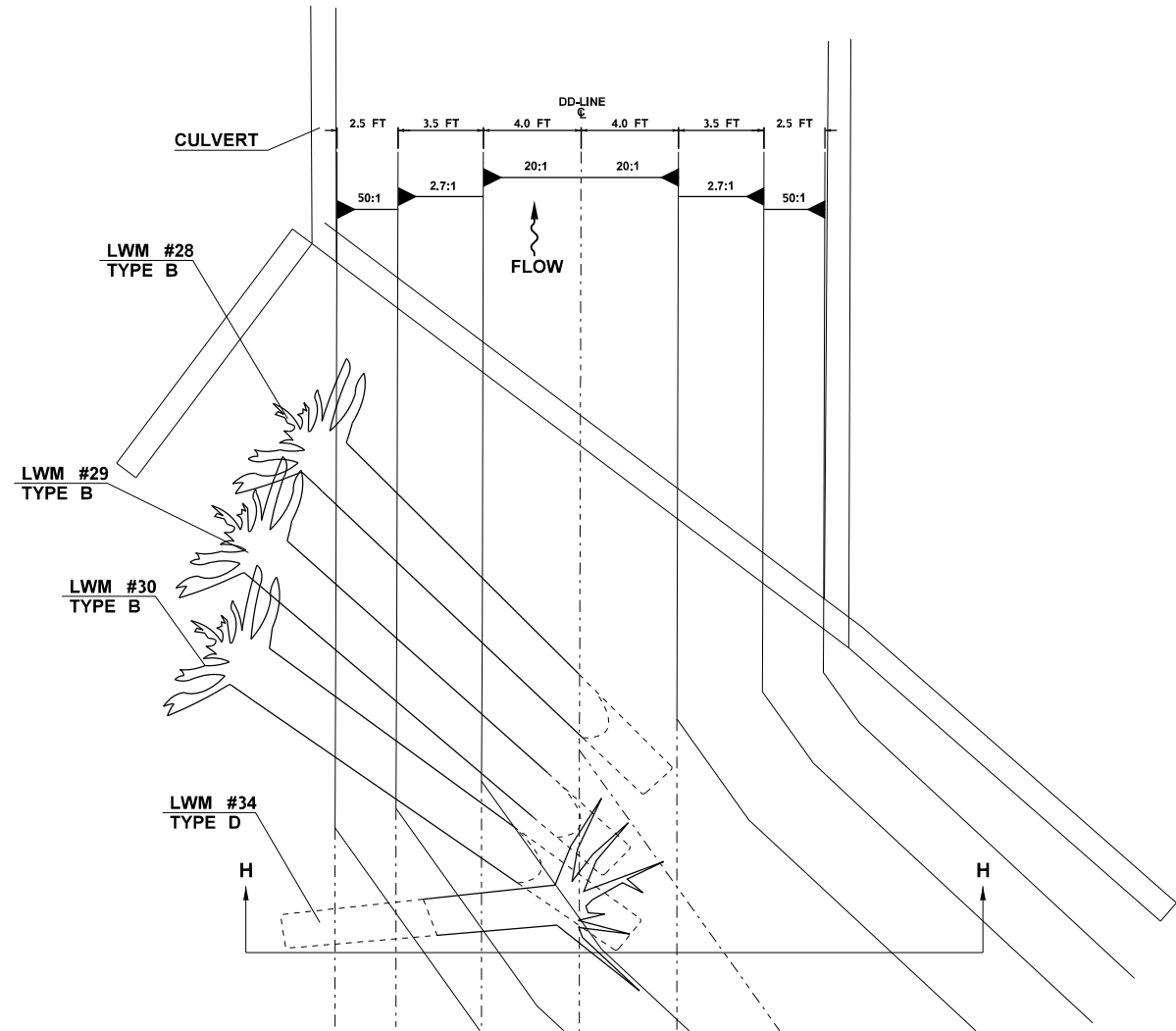
SECTION G - G
NOT TO SCALE



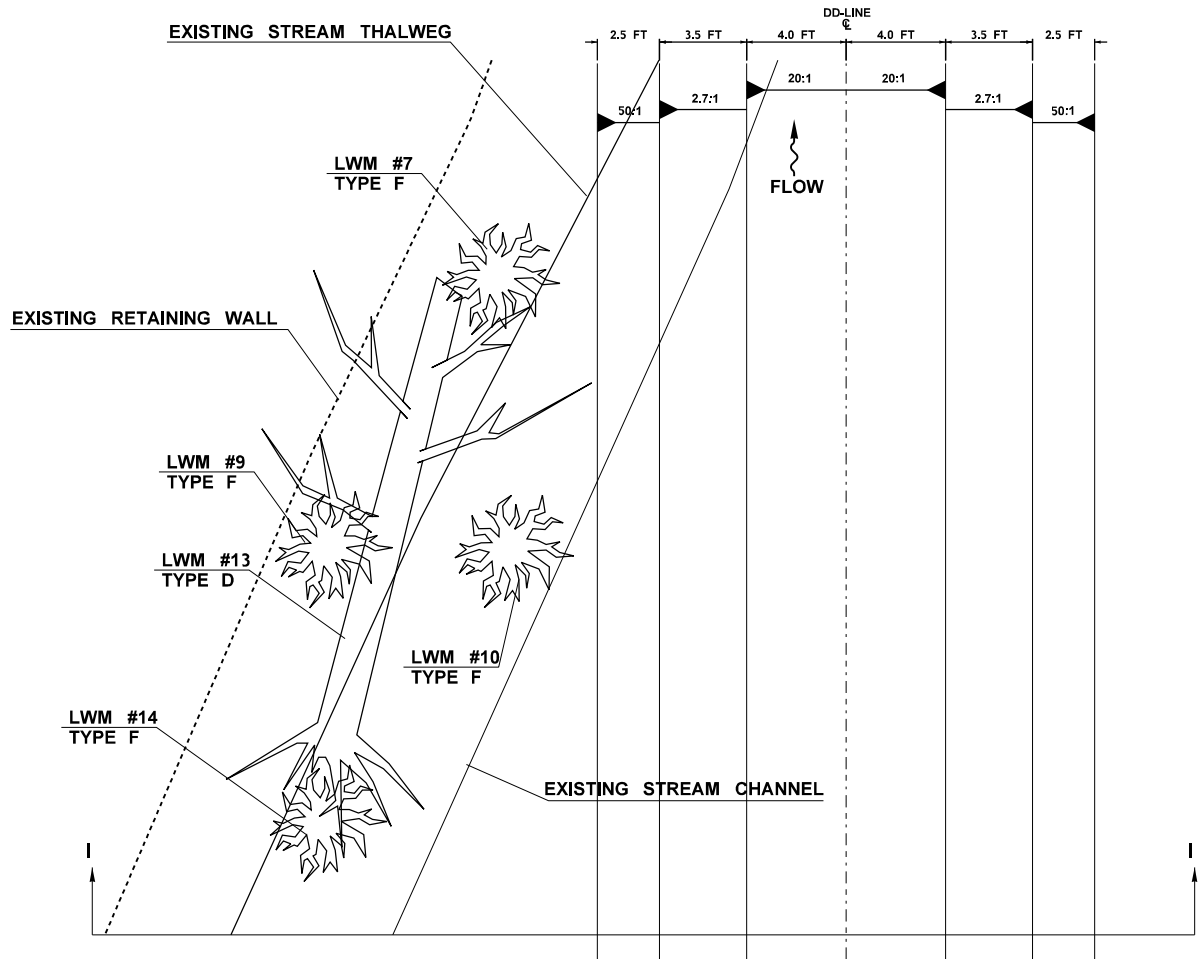
c:\users\nguyea\pwws\dot\0460269\XL6478_220_PS_CD.dgn

FILE NAME XL6478_220_PS_CD.dgn				REGION NO.	STATE	FED. AID PROJ. NO.				SR 539 DUFFNER DITCH FISH PASSAGE		PLAN REF NO.		
TIME 11:15:15 AM				10	WASH	JOB NUMBER 22A040						CONTRACT NO.	LOCATION NO.	CD3
DATE 9/30/2022														
PLOTTED BY nguyea														
DESIGNED BY A. NGUYEN														
ENTERED BY A. NGUYEN										SHEET 30 OF 58 SHEETS				
CHECKED BY S. TRAX														
PROJ. ENGR. M. AMBLER														
REGIONAL ADM. B. NIELSEN														
REVISION				DATE	BY	STREAM RESTORATION DETAILS								

c:\users\nguyea\pwworkspace\10460269\XL6478_220_PS_CD.dgn



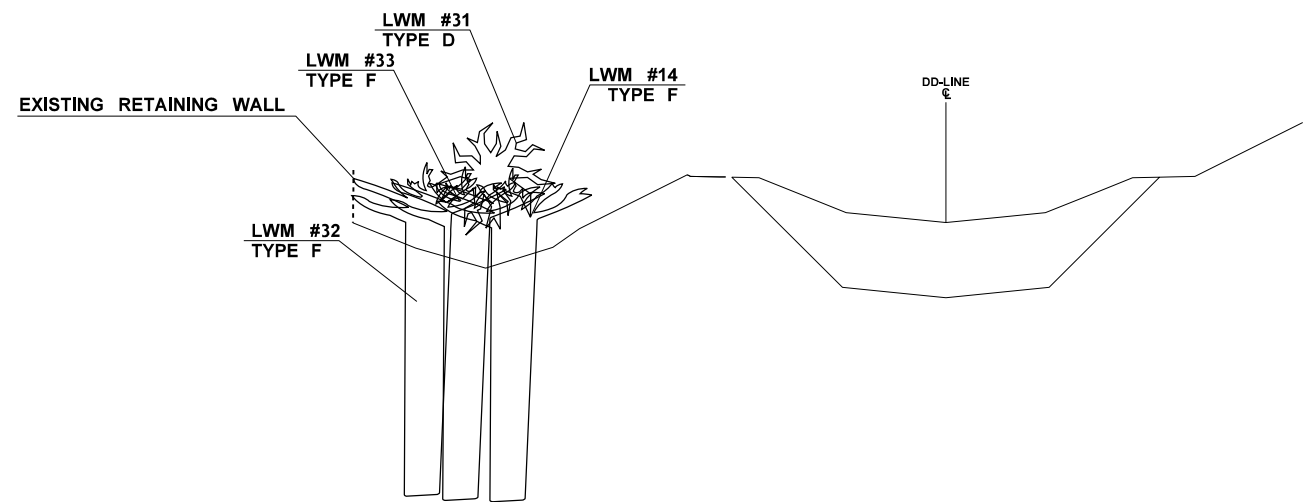
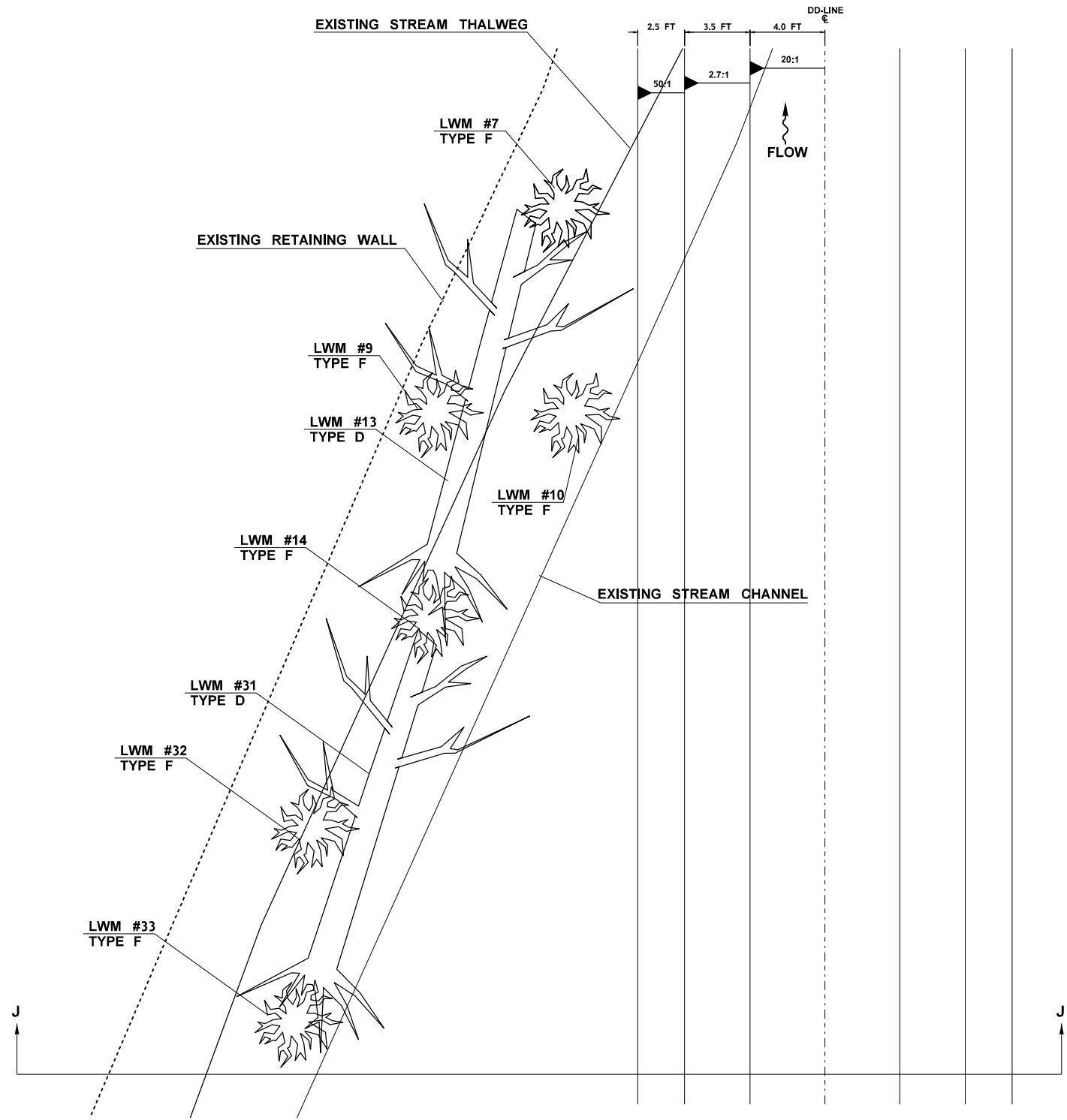
LARGE WOODY MATERIAL 28,29,30,34
SECTION H - H
NOT TO SCALE



LARGE WOODY MATERIAL 7,9,10,13,14
SECTION I - I
NOT TO SCALE

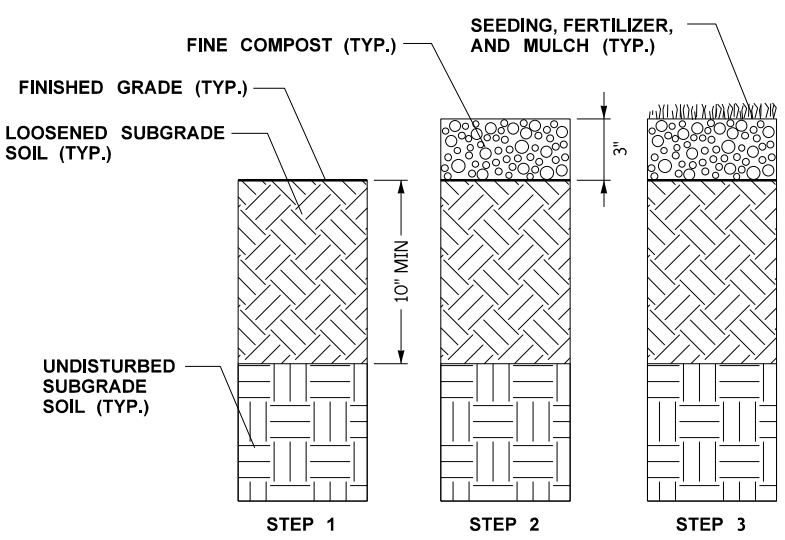
FILE NAME				XL6478_220_PS_CD.dgn		REGION NO.	STATE	FED. AID PROJ. NO.		 SEE SHEET CT1 DATE P.E. STAMP BOX	 SEE SHEET CT1 DATE P.E. STAMP BOX	SR 539		STREAM RESTORATION DETAILS	PLAN REF NO
TIME		2:14:57 PM		10	WASH		CD4								
DATE		9/30/2022		JOB NUMBER			SHEET								
PLOTTED BY		nguyea		22A040			31								
DESIGNED BY		A. NGUYEN		CONTRACT NO.		LOCATION NO.			OF						
ENTERED BY		A. NGUYEN							58						
CHECKED BY		S. TRAX							SHEETS						
PROJ. ENGR.		M. AMBLER													
REGIONAL ADM.		B. NIELSEN		REVISION		DATE		BY							

c:\users\nguyeaq\pw_wsdot\40460269\XL6478_220_PS_CD.dgn



LARGE WOODY MATERIAL 14,31,32,33
SECTION J - J
NOT TO SCALE

FILE NAME				XL6478_220_PS_CD.dgn				REGION NO.	STATE	FED. AID PROJ. NO.	<div><div><div></div><div>WSDOT</div></div><div><div>SEE SHEET CT1</div><div>DATE</div><div>P.E. STAMP BOX</div></div><div><div>SEE SHEET CT1</div><div>DATE</div><div>P.E. STAMP BOX</div></div></div>	<div><div>SR 539</div><div>DUFFNER DITCH</div><div>FISH PASSAGE</div></div>	<div>STREAM RESTORATION DETAILS</div>	PLAN REF NO
TIME	11:22:29 AM			10	WASH		CD5							
DATE	9/30/2022			JOB NUMBER	22A040	CONTRACT NO.	LOCATION NO.							
PLOTTED BY	nguyea													
DESIGNED BY	A. NGUYEN													
ENTERED BY	A. NGUYEN													
CHECKED BY	S. TRAX								SHEET					
PROJ. ENGR.	M. AMBLER								32					
REGIONAL ADM.	B. NIELSEN								OF					
									58					
									SHEETS					

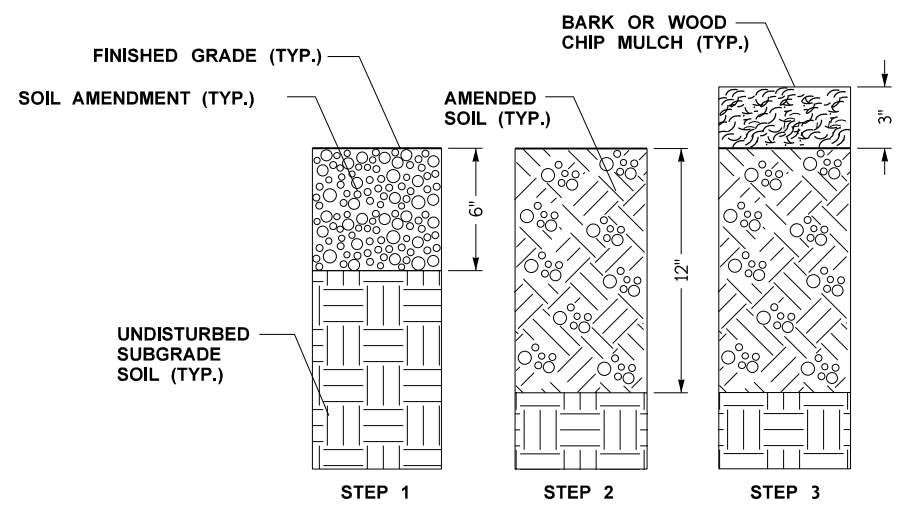


- NOTES:
- 1. INSTALL SEEDING AREA SOIL PREPARATION IN ALL AREAS TO RECEIVE SEEDING.
 - 2. INSTALL SEEDING AREA SOIL PREPARATION AS SHOWN AND PER STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS 8-02.3(5)A.
- STEP 1
LOOSEN SOIL.
- STEP 2
PLACE FINE COMPOST.
- STEP 3
INSTALL SEEDING, FERTILIZER, AND MULCHING.

SEEDING AREA SOIL PREPARATION

SECTION VIEW

NOT TO SCALE

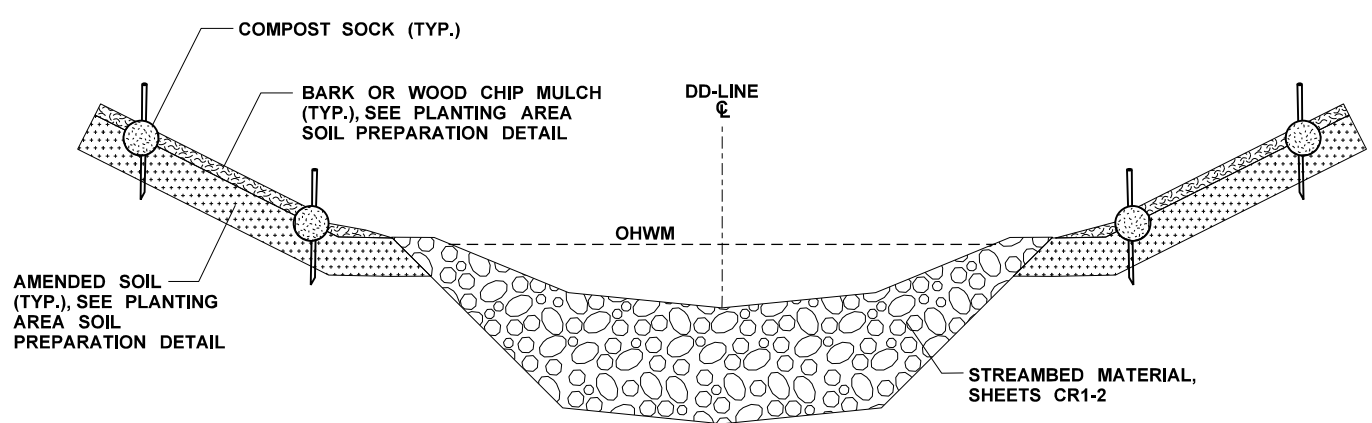


- NOTES:
- 1. INSTALL PLANTING AREA SOIL PREPARATION AS SHOWN AND PER STANDARD SPECIFICATION 8-02.3(5)C.
- STEP 1
PLACE SOIL AMENDMENT.
- STEP 2
INCORPORATE COMPOST TO DEPTH SHOWN.
- STEP 3
INSTALL COMPOST SOCKS FOR PLANTING WHERE SHOWN ON SHEET LSP1.
- STEP 4
INSTALL BARK OR WOOD CHIP MULCH. DO NOT INSTALL BARK OR WOOD CHIP MULCH IN ANY LOCATION BELOW OHWM.

PLANTING AREA SOIL PREPARATION

SECTION VIEW

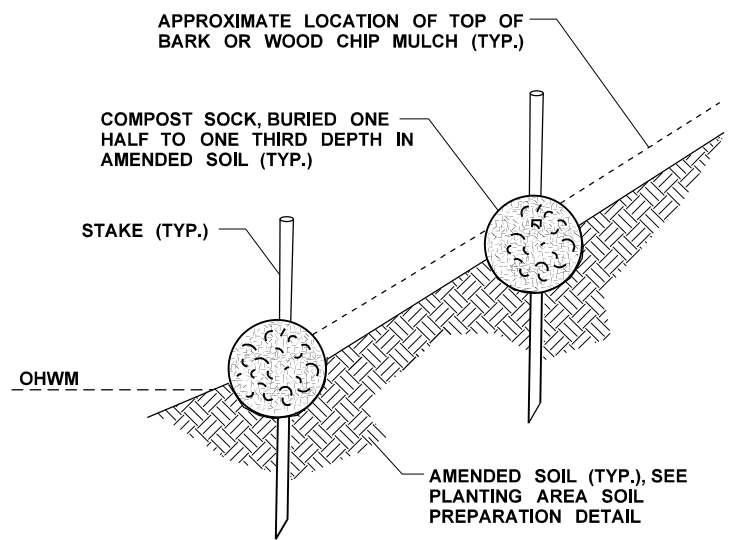
NOT TO SCALE



DUFFNER DITCH SECTION

SECTION VIEW

NOT TO SCALE




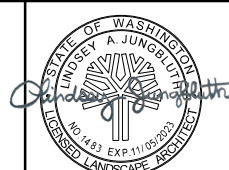
- NOTES:
- 1. COMPOST SOCKS SHALL BE 12" IN DIAMETER AND OTHERWISE MEET STANDARD SPECIFICATION 9-14.6(6).
 - 2. SECURELY KNOT EACH END OF COMPOST SOCK.
 - 3. FOR LOCATIONS, SEE SHEET LSP1.
 - 4. OVERLAP COMPOST SOCKS AS SHOWN IN COMPOST SOCK STANDARD PLAN (STANDARD PLAN I-30.40-02).
 - 5. INSTALL COMPOST SOCKS BEFORE APPLYING BARK OR WOOD CHIP MULCH.
 - 6. LEAVE COMPOST SOCKS IN PLACE AT COMPLETION OF WORK.

COMPOST SOCK

SECTION VIEW

NOT TO SCALE


c:\cadd\lib\pw\04080420\SR539_LD.dgn

FILE NAME SR539_LD.dgn				REGION NO.	STATE	FED. AID PROJ. NO.					SR 539 DUFFNER DITCH FISH PASSAGE		PLAN REF NO
TIME	7:26:36 PM			10	WASH								LSD1
DATE	1/10/2023			JOB NUMBER									SHEET 34 OF 58 SHEETS
PLOTTED BY	HaddoxB			22A040									
DESIGNED BY	J. LOGAN			CONTRACT NO.		LOCATION NO.	SEE SHEET CT1		DATE		DATE		SOIL PREPARATION AND BIOENGINEERING DETAILS
ENTERED BY	J. LOGAN												
CHECKED BY	L. JUNGBLUTH												
PROJ. ENGR.	M. AMBLER						P.E. STAMP BOX		P.E. STAMP BOX				
REGIONAL ADM.	M. COTTEN												
		REVISION		DATE	BY								

QUANTITY TABULATION - PAVING / PAVEMENT MARKING	
---	--

<p>NOTE: THE FIRST NUMBER OF THE "CODE" BELOW REFERS TO THE SHEET NO. OR THE SHEET REFERENCE NO. SHOWING THE CONSTRUCTION FEATURE.</p> <p>THE SECOND NUMBER REFERS TO THE CONSTRUCTION FEATURE FOUND ON THAT SHEET.</p>	BEAM GUARDRAIL TYPE 31		BEAM GUARDRAIL TYPE 31 - 9 FT. LONG POST	BEAM GUARDRAIL TRANSITION SECTION TYPE 24	BEAM GUARDRAIL TYPE 31 NON-FLARED TERMINAL	BEAM GUARDRAIL (TYPE 31) ANCHOR TYPE 11		PLASTIC LINE	CENTERLINE RUMBLE STRIP	RECESSED PAVEMENT MARKER	TEMPORARY MARKING-SHORT DURATION	PLASTIC DRAINAGE MARKING	BRIDGE RAILING TYPE CHAIN LINK PIPE RAIL			SEE GENERAL NOTES	GENERAL NOTES:
---	------------------------	--	--	---	--	---	--	--------------	-------------------------	--------------------------	----------------------------------	--------------------------	--	--	--	-------------------	----------------

[illegible]

						REGION NO.	STATE	FED. AID PROJ. NO.			<div> Washington State Department of Transportation</div>	<div>SR 539 DUFFNER DITCH FISH PASSAGE</div>	QTPV1
DESIGNED BY	A. NGUYEN					10	WASH			SHEET			
ENTERED BY	A. NGUYEN					JOB NUMBER				35			
CHECKED BY	S. TRAX					22A040				OF			
PROJ. ENGR.	M. AMBLER					CONTRACT NO.				58			
REGION ADM.	B. NIELSEN									SHEETS			
		DATE	DATE	REVISION	BY							QUANTITY TABULATION - PAVING / PAVEMENT MARKING	





















CONSTRUCTION NOTES:

- 101 INSTALL AN OPEN-BOTTOM PULLBOX TO REMAIN AS PART OF PERMANENT SYSTEM AND INTERCEPT THE EXISTING CONDUIT. SEE SHEET ITS3.
- 102 INSTALL A FIBER OPTIC CABLE AND CO-LASH TO THE MESSENGER CABLE.
- 103 SPLICE 1-48 SMFO DISTRIBUTION CABLE IN AN APPROVED AERIAL SPLICE CLOSURE ON THE POLE IN ACCORDANCE WITH THE FIBER SPLICE DETAILS SHEET ITD2.
- 104 DISCONNECT EXISTING 1-48 SMFO FROM EXISTING SPLICE IN EXISTING SMALL CABLE VAULT. PULL CABLE BACK TO NEW CABLE VAULT AND SPLICE TO NEW 1-48 SMFO.
- 105 SPLICE NEW 1-48 SMFO DISTRIBUTION CABLE WITH EXISTING 1-48 SMFO PRETERM STUB IN AN APPROVED SPLICE CLOSURE IN THE EXISTING SMALL CABLE VAULT PER DETAILS ON SHEETS ITD3.
- 106 REMOVE THE EXISTING PULL BOX AND ASSOCIATED CONDUIT.
- 107 TEST THE FIBER OPTIC CABLE AFTER NEW FIBER IS INSTALLED IN ACCORDANCE WITH THE FIBER OPTIC CABLE TESTING SPECIAL PROVISION.
- 108 INSTALL CLASS 5 40 FT TIMBER POLE ACCORDING TO STANDARD PLAN J-15.15 AND POLE SCHEDULE ON ITS3. REMOVE TIMBER POLES AFTER PERMANENT ITS SYSTEM IS OPERATIONAL.
- 109 SPAN WIRE SHALL BE 17.5 FT MIN. VERTICAL CLEARANCE AND SHALL HAVE 10 FT MIN. CLEARANCE FROM UTILITY POWER LINE.
- 110 INSTALL 2" CONDUIT RISER MIN. 10 FT UP THE TIMBER POLE. ROUTE THE CONDUIT TO THE NEW CABLE VAULT/PULL BOX.
- 111 INSTALL POLE LINE HARDWARE AND 3/8" MESSENGER CABLE ON THE TIMBER POLE.

△ WIRING SCHEDULE

RUN NO.	CONDUIT EXISTING	CONDUIT NEW	INNERDUCT	CONDUCTOR EXISTING	CONDUCTOR NEW	REMARK
101	4"		A	1-48 SMFO		DISTRIBUTION FIBER (REMOVE)
			B		1-48 SMFO	DISTRIBUTION FIBER
			C			
			D			
102	2"			1-48 SMFO		DISTRIBUTION FIBER
				1-2C(S)		SIGNAL LOOP
103	2"			2-2C(S)		SIGNAL LOOP
				1-48 SMFO		DISTRIBUTION FIBER
104		SPAN WIRE			1-48 SMFO	DISTRIBUTION FIBER
105		2"			1-48 SMFO	DISTRIBUTION FIBER
106	4"		A	1-48 SMFO		DISTRIBUTION FIBER
			B			
			C			
			D			
107	2"			1-48 SMFO		DISTRIBUTION FIBER
				1-24 PPP		PRETERM STUB
108	2"			1-48 SMFO		DISTRIBUTION FIBER
109	2"			1-48 PPP		PRETERM STUB
	2"					SPARE
110	2"			1-24 PPP		PRETERMINATED STUB
				1-CCC		CAMERA CONTROL

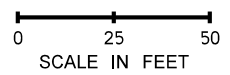
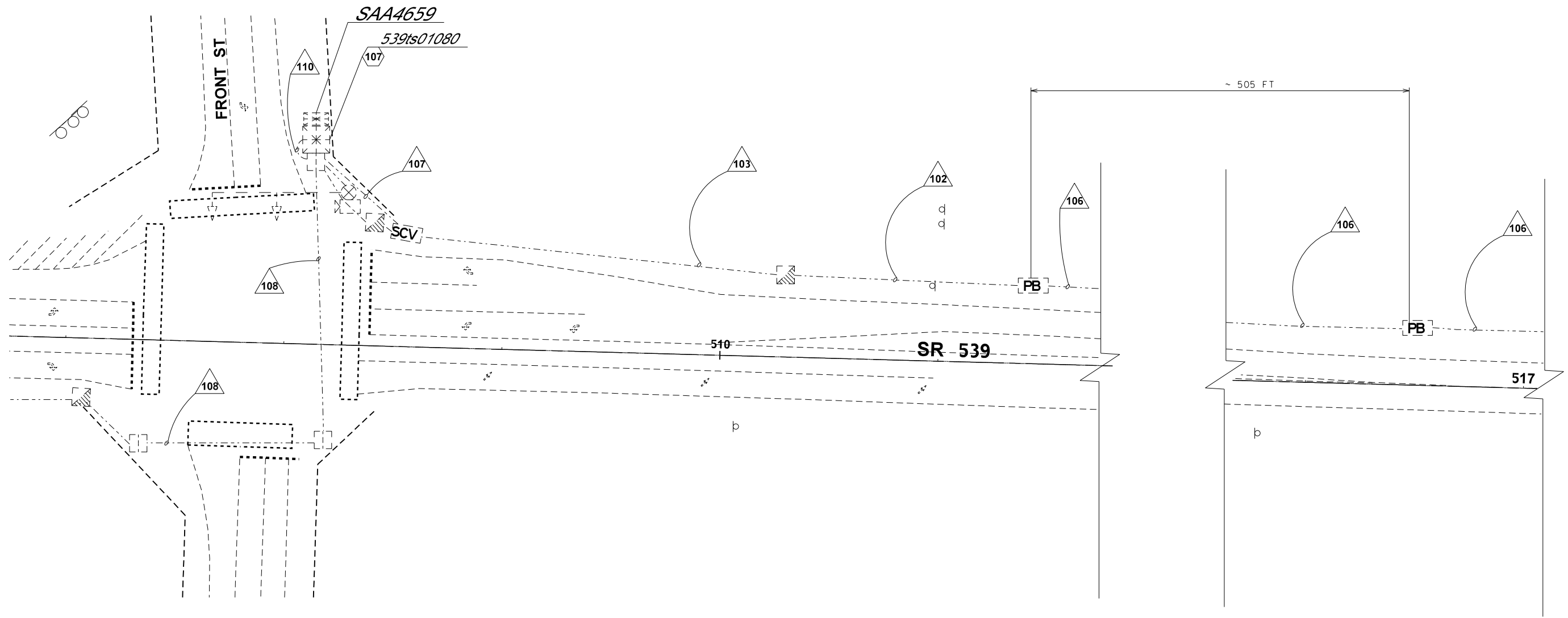
ITS Legend

Existing	New	
		Type 1 Junction Box
		Type 2 Junction Box
		Type 4 Junction Box
		Type 7 Junction Box
		ITS Small Cable Vault
		ITS Cable Vault
		ITS Pull Box
		Controller Cabinet
		CCTV Cabinet
		CCTV Camera
		Span Wire
		Conduit
		Electrical Service Cabinet
		Timber Pole
		Down Guy
		Construction Note Flag
		Wire Note Flag
		Pole Note Flag

ABBREVIATIONS:

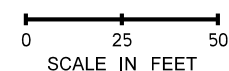
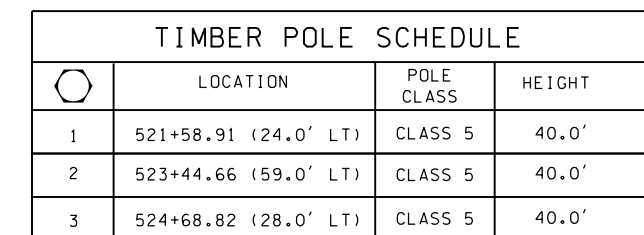
ATC	ADVANCED TRANSPORTATION CONTROLLER
C	CONDUCTOR
CCTV	CLOSED CIRCUIT TELEVISION
C(S)	CONDUCTOR SHIELDED
DET	DETECTOR
EX	EXISTING
FB	FLASHING BEACON
JB	JUNCTION BOX
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
NO	NUMBER
PPP	PRETERMINATED PATCH PANEL
PR	PAIR
SIG	SIGNAL
SMFO	SINGLE MODE FIBER OPTIC
STD	STANDARD
STUB	PRETERM PANEL FIBER STUB
TEMP	TEMPORARY
TYP	TYPICAL
VEH	VEHICLE

[illegible]



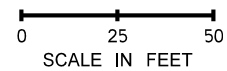
GENERAL NOTES:
FOR CONSTRUCTION NOTES, LEGEND, ABBREVIATIONS,
AND WIRE NOTES, SEE SHEET ITST1.



FILE NAME										T:\414121\Traffic Desgn\PROJECTS\SR 539\XL6478 - Duffner Ditch_FishPassage\XL6478_PS_TS.dgn																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
-----------	--	--	--	--	--	--	--	--	--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



GENERAL NOTES:
FOR CONSTRUCTION NOTES, LEGEND, ABBREVIATIONS,
AND WIRE NOTES, SEE SHEET ITST1.

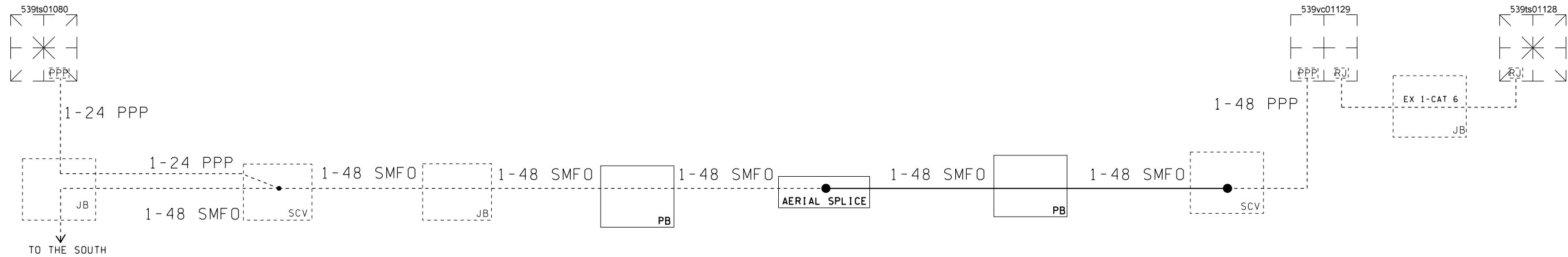
[illegible]



FILE NAME T:\414121\Traffic Desgn\ PROJECTS\SR 539\XL6478 - Duffner Dltch_FlshPassage\XL6478_PS_TS.dgn												 Washington State Department of Transportation		SR 539 DUFFNER DITCH FISH PASSAGE		Plot 6	
TIME 3:01:52 PM						REGION NO. STATE		FED.AID PROJ.NO.								PLAN REF NO	
DATE 1/10/2023						10 WASH						ITST4					
PLOTTED BY AlmustW								JOB NUMBER				SHEET					
DESIGNED BY W. ALMUSTAFA								22A040				40					
ENTERED BY W. ALMUSTAFA								CONTRACT NO.		LOCATION NO.		OF					
CHECKED BY C. WOO												58					
PROJ. ENGR. M. AMBLER												SHEETS					
REGIONAL ADM. B.NIELSEN				REVISION		DATE		BY									

TEMPORARY COMMUNICATION DIAGRAM

- GENERAL NOTES:
- 1. ALL STRANDS NOT IDENTIFIED IN THE PRETERM PANEL SHALL BE THROUGH-SPLICED IN THE CLOSURE.
 - 2. NOT ALL PULL BOXES ARE SHOWN.
 - 3. FOR CABLE VAULT LOCATIONS, SEE SHEETS 1TST2-1TST4.





KEY

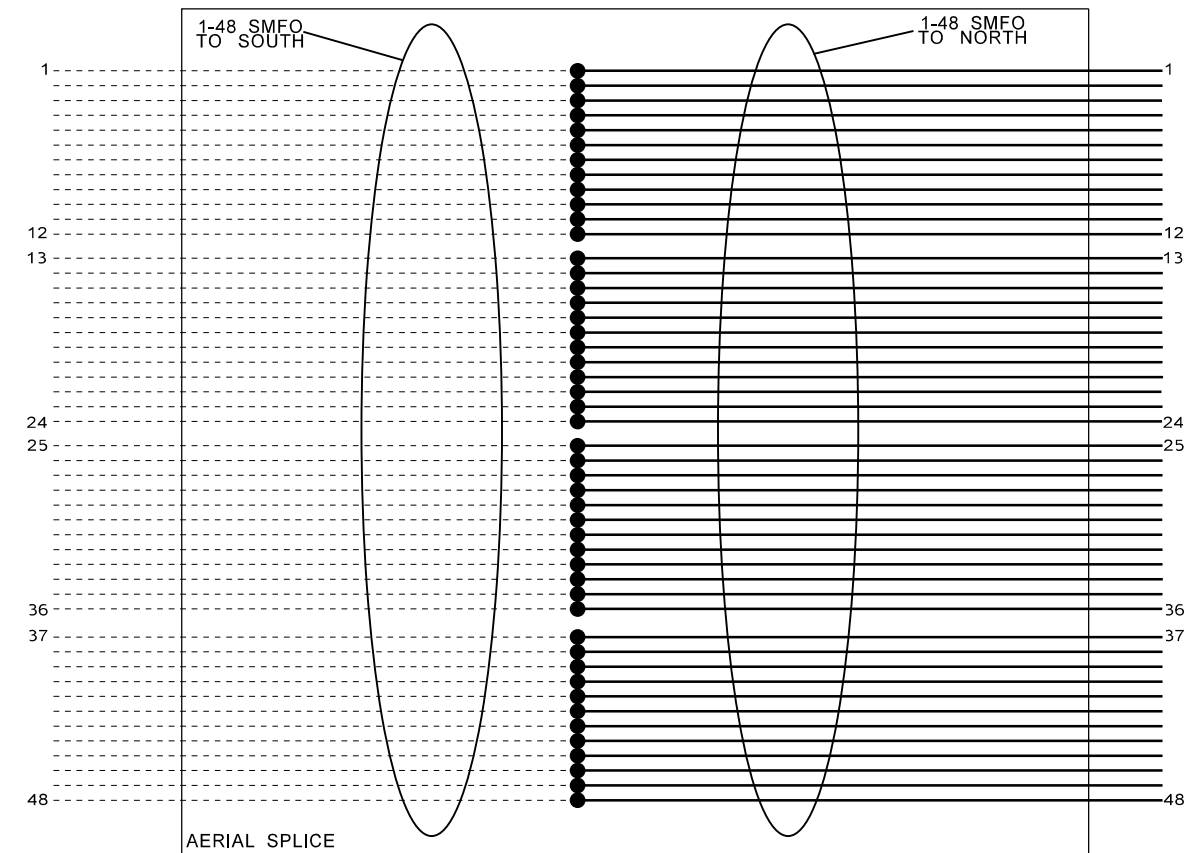
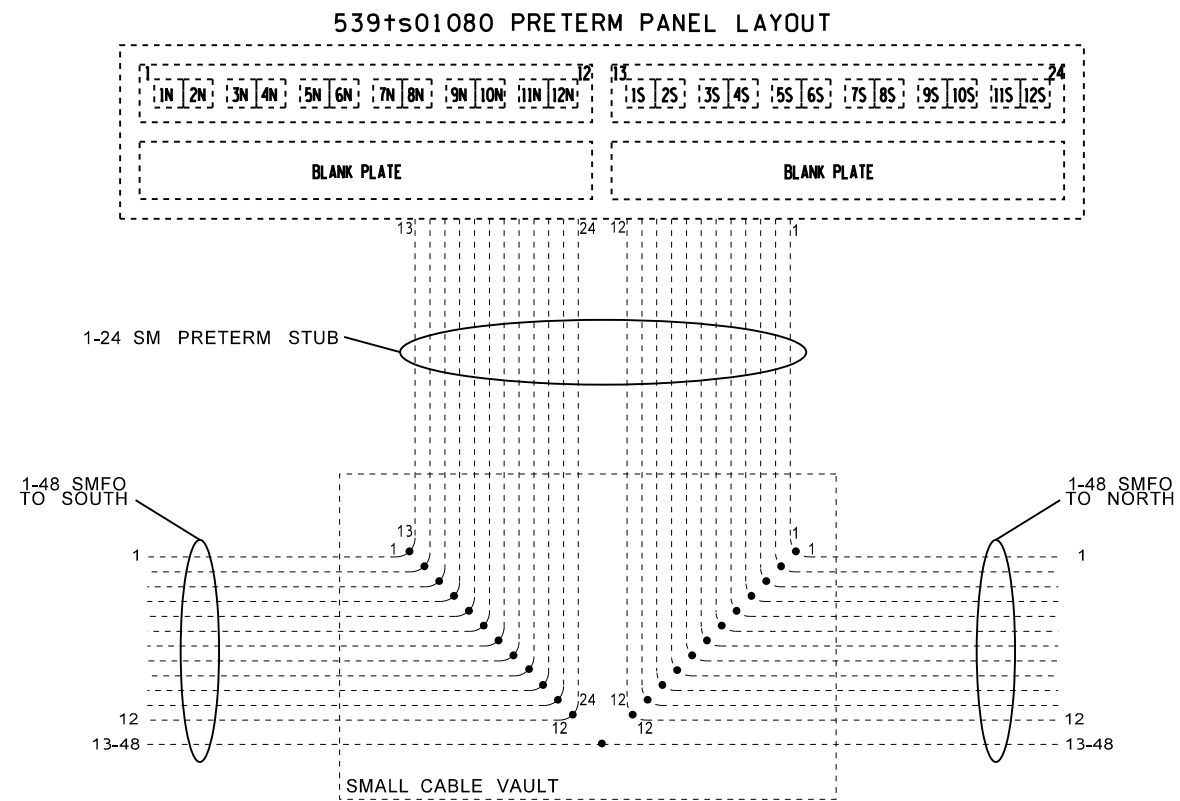
EXISTING	NEW	
•	●	FIBER OPTIC SPLICE
[PPP]	[PPP]	PRETERMINATED PATCH PANEL
[RJ]	[RJ]	CAT6 RJ45 TERMINATION
-----	————	SMFO

ABBREVIATIONS

- SMFO - SINGLE MODE FIBER OPTIC CABLE
- PPP - SINGLE MODE FIBER OPTIC PRETERMINATED PATCH PANEL
- SCV - SMALL CABLE VAULT
- CV - CABLE VAULT
- PB - PULL BOX

FILE NAME T:\414121\Traffic Design\PROJECTS\SR 539\XL6478 - Duffner Ditch_Fish Passage\XL6478_PS_TS.dgn												SEE SHEET CT1 DATE		P.E. STAMP BOX		DATE		 Washington State Department of Transportation		SR 539 DUFFNER DITCH FISH PASSAGE		Plot 7	
TIME 3:01:53 PM								PLAN REF NO															
DATE 1/10/2023						REGION NO. STATE		FED.AID PROJ.NO.										ITD1					
PLOTTED BY AlmustW						10 WASH																	
DESIGNED BY W. ALMUSTAFA						JOB NUMBER																	
ENTERED BY W. ALMUSTAFA						22A040																	
CHECKED BY C. WOO						CONTRACT NO.		LOCATION NO.															
PROJ. ENGR. M. AMBLER																							
REGIONAL ADM. B.NIELSEN				REVISION		DATE		BY										SHEET 41 OF 58 SHEETS					
																TEMPORARY ITS DETAILS							

TEMPORARY FIBER SPLICE DETAILS



KEY

EXISTING

NEW

•

●

FIBER OPTIC SPLICE

PPP

PPP

PRETERMINATED PATCH PANEL

RJ

CAT6 RJ45 TERMINATION

ABBREVIATIONS

SMFO - SINGLE MODE FIBER OPTIC CABLE

PPP - SINGLE MODE FIBER OPTIC PRETERMINATED PATCH PANEL

SCV - SMALL CABLE VAULT

CV - CABLE VAULT

PB - PULL BOX

FILE NAME T:\414121\Traffic Design\PROJECTS\SR 539\XL6478 - Duffner Ditch_FishPassage\XL6478_PS_TS.dgn										Plot 8									
TIME 3:01:54 PM						REGION NO. STATE		FED.AID PROJ.NO.										PLAN REF NO.	
DATE 1/10/2023						10 WASH												ITD2	
PLOTTED BY AlmustW						JOB NUMBER												SHEET	
DESIGNED BY W. ALMUSTAFA						22A040												42	
ENTERED BY W. ALMUSTAFA						CONTRACT NO.		LOCATION NO.										OF	
CHECKED BY C. WOO																		58	
PROJ. ENGR. M. AMBLER																		SHEETS	
REGIONAL ADM. B.NIELSEN		REVISION		DATE		BY													

SEE SHEET CT1
DATE _____
P.E. STAMP BOX _____

DATE _____
P.E. STAMP BOX _____

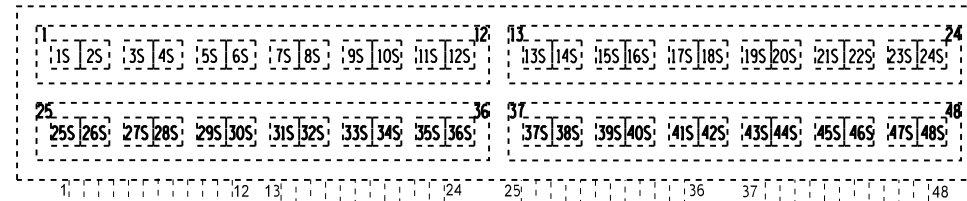
Washington State
Department of Transportation

SR 539
DUFFNER DITCH
FISH PASSAGE

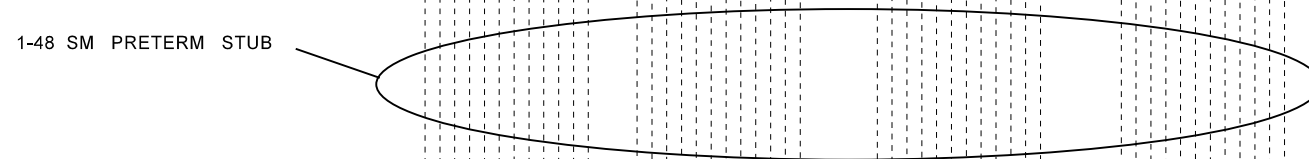
TEMPORARY ITS DETAILS

TEMPORARY FIBER SPLICE DETAILS

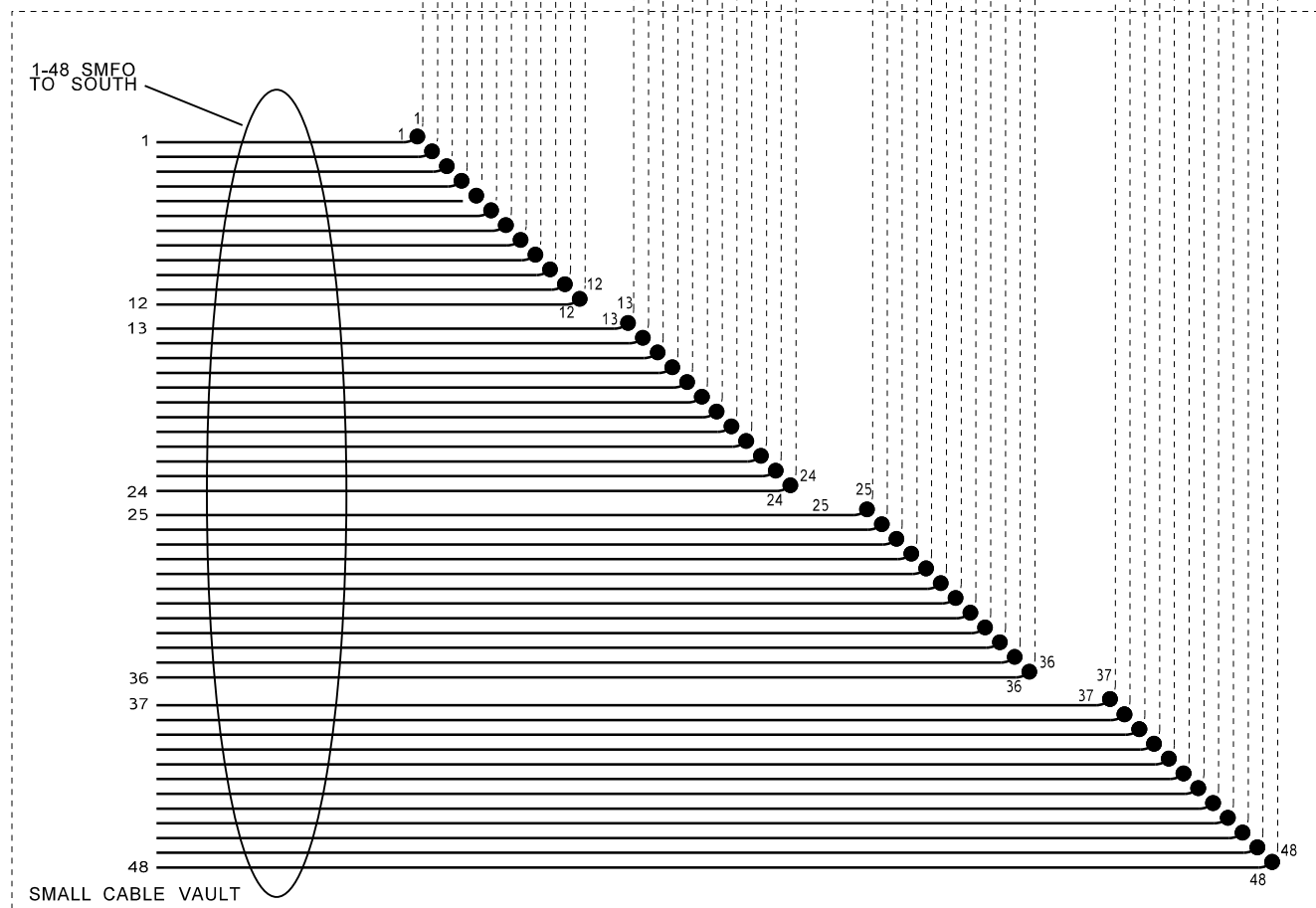
539vc01129 PRETERM PANEL LAYOUT





1-48 SM PRETERM STUB



1-48 SMFO
TO SOUTH



SMALL CABLE VAULT

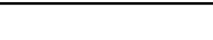
FILE NAME T:\414121\Traffic Design\PROJECTS\SR 539\XL6478 - Duffner Ditch_FishPassage\XL6478_PS_TS.dgn										Plot 9	
TIME	3:01:54 PM					REGION NO.	STATE	FED.AID PROJ.NO.			PLAN REF NO.
DATE	1/10/2023					10	WASH				ITD3
PLOTTED BY	AlmustW					JOB NUMBER					SHEET 43 OF 58 SHEETS
DESIGNED BY	W. ALMUSTAFA					22A040					
ENTERED BY	W. ALMUSTAFA					CONTRACT NO.		LOCATION NO.			SR 539 DUFFNER DITCH FISH PASSAGE TEMPORARY ITS DETAILS
CHECKED BY	C. WOO										
PROJ. ENGR.	M. AMBLER										
REGIONAL ADM.	B.NIELSEN					REVISION		DATE	BY		
<div><div><div>SEE SHEET CT1 DATE _____ P.E. STAMP BOX _____</div></div><div><div>DATE _____</div><div>P.E. STAMP BOX _____</div></div></div>										<div><div>Washington State Department of Transportation</div></div>	

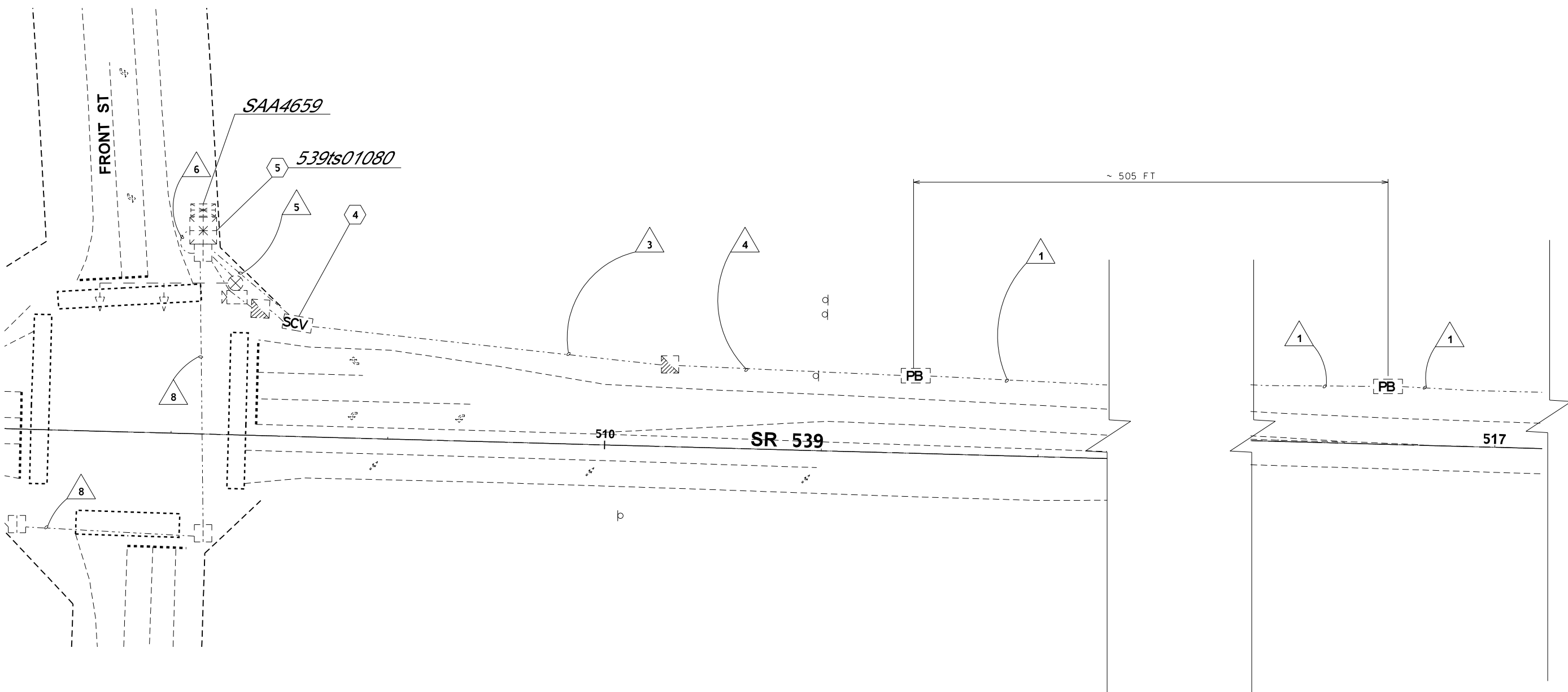
- 1 INSTALL CONDUIT USING OPENUCT METHOD.REPAIR ASPHALT.
- 2 PULL BOX INSTALLED IN THE TEMPORARY ITS PLAN.SEE SHEET ITST3.
- 3 SPLICE NEW 1-48 SMFO DISTRIBUTION CABLE WITH EXISTING 1-48 PRETERM STUB IN AN APPROVED SPLICE CLOSURE IN THE EXISTING SMALL CABLE VAULT IN ACCORDANCE WITH THE FIBER SPLICE DETAILS SHEET ITSD2.
- 4 SPLICE NEW 1-48 SMFO DISTRIBUTION CABLE WITH EXISTING 1-24 PRETERM STUB,AND EXISTING 1-48 SMFO DISTRIBUTION CABLE IN AN APPROVED SPLICE CLOSURE IN THE EXISTING SMALL CABLE VAULT IN ACCORDANCE WITH THE FIBER SPLICE DETAILS SHEET ITSD2.
- 5 TEST THE FIBER OPTIC CABLE AFTER NEW FIBER IS INSTALLED IN ACCORDANCE WITH THE FIBER OPTIC CABLE TESTING SPECIAL PROVISION.
TEST STRANDS 1-12 BETWEEN 539vc01129 AND 539vc01080 (FRONT ST).
TEST STRANDS 13-24 BETWEEN 539vc01129 AND 539vc01055 (BRICH BAY - LINDEN).
TEST STRANDS 25-36 BETWEEN 539vc01129 AND 539vc00862 (WISER LAKE RD).
TEST STRANDS 37-48 BETWEEN 539vc01129 AND 539vc00500 (LAUREL RD).

Existing	New	
		Type 1 Junction Box
		Type 2 Junction Box
		Type 4 Junction Box
		Type 7 Junction Box
		ITS Small Cable Vault
		ITS Cable Vault
		ITS Pull Box
		Transformer Cabinet
		Controller Cabinet
		CCTV Cabinet
		CCTV Camera
		Conduit
		Electrical Service Cabinet
		Construction Note Flag
		Wire Note Flag
		Pole Note Flag



RUN NO.	CONDUIT EXISTING	CONDUIT NEW	INNERDUCT	CONDUCTOR EXISTING	CONDUCTOR NEW	REMARK
1	4"		A	1-48 SMFO		DISTRIBUTION FIBER (REMOVE)
			B		1-48 SMFO	DISTRIBUTION FIBER
			C			
			D			
2		4"	A		1-48 SMFO	DISTRIBUTION FIBER
			B			
			C			
			D			
3	2"			2-2C(S)		SIGNAL LOOP
					1-48 SMFO	DISTRIBUTION FIBER
				1-48 SMFO		DISTRIBUTION FIBER (REMOVE)
4	2"			1-2C(S)		SIGNAL LOOP
					1-48 SMFO	DISTRIBUTION FIBER
				1-48 SMFO		DISTRIBUTION FIBER (REMOVE)
5	2"			1-48 SMFO		DISTRIBUTION FIBER
				1-24 PPP		PRETERMINATED STUB
6	2"			1-24 PPP		PRETERMINATED STUB
				1-CCC		CAMERA CONTROL
7	2"			1-48 PPP		PRETERM STUB
	2"					SPARE
8	2"			1-48 SMFO		DISTRIBUTION FIBER

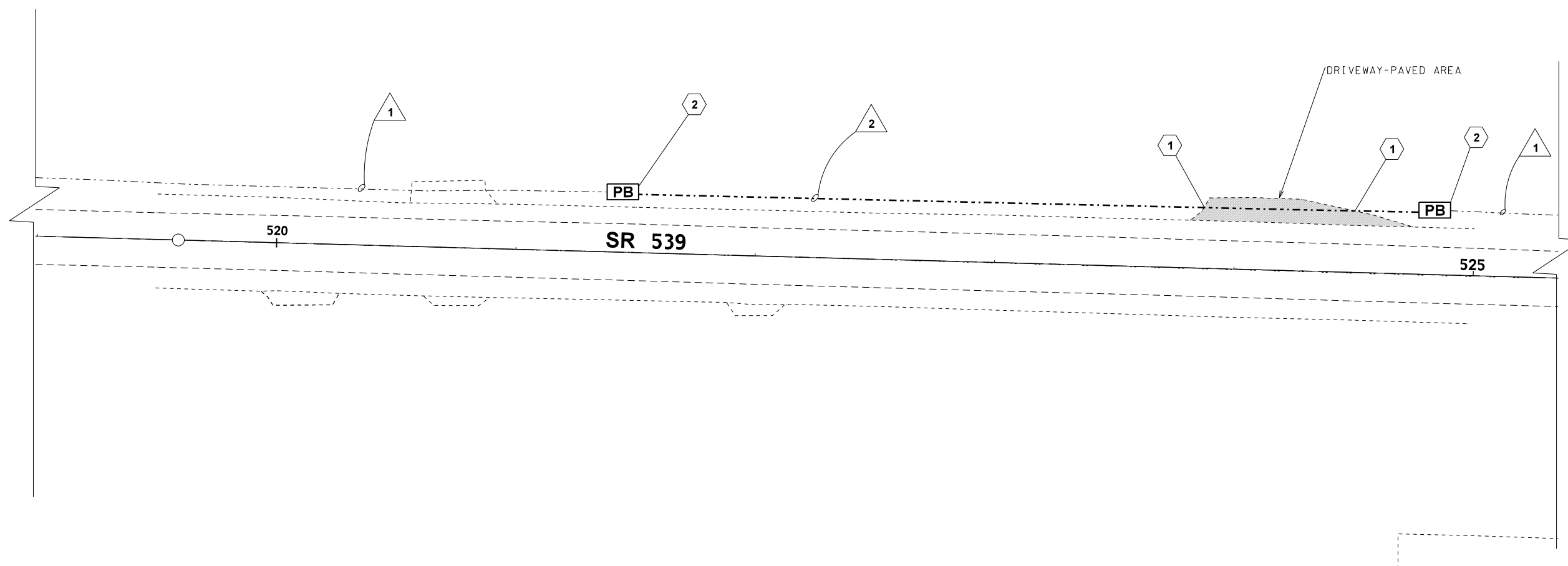
ATC	ADVANCED TRANSPORTATION CONTROLLER
C	CONDUCTOR
CCTV	CLOSED CIRCUIT TELEVISION
C(S)	CONDUCTOR SHIELDED
DET	DETECTOR
EX	EXISTING
FB	FLASHING BEACON
JB	JUNCTION BOX
MAX	MAXIMUM
MIN	MINIMUM
NTS	NOT TO SCALE
NO	NUMBER
PPP	PRETERMINATED PATCH PANEL
PR	PAIR
SIG	SIGNAL
SMFO	SINGLE MODE FIBER OPTIC
STD	STANDARD
STUB	PRETERM PANEL FIBER STUB
TEMP	TEMPORARY
TYP	TYPICAL
VEH	VEHICLE

FILE NAME T:\414121\Traffic Desgn\PROJECTS\SR 539\XL6478 - Duffner Ditch_FishPassage\XL6478_PS_TS.dgn										Plot 10											
TIME 3:01:55 PM						REGION NO. STATE		FED.AID PROJ.NO.		<div><div></div><div>SEE SHEET CT1</div><div>DATE _____</div><div>P.E. STAMP BOX _____</div></div> <div><div>DATE _____</div><div>P.E. STAMP BOX _____</div></div>										PLAN REF NO	
DATE 1/10/2023						10 WASH														ITS1	
PLOTTED BY AlmustW																					
DESIGNED BY W. ALMUSTAFA						JOB NUMBER															
ENTERED BY W. ALMUSTAFA						22A040															
CHECKED BY C. WOO								CONTRACT NO.		LOCATION NO.											
PROJ. ENGR. M. AMBLER																					
REGIONAL ADM. B.NIELSEN				REVISION		DATE		BY				SHEET 44 OF 58 SHEETS									
										ITS PLAN											
										SR 539 DUFFNER DITCH - FISH PASSAGE											
										Washington State Department of Transportation											
										ITS PLAN											




A horizontal scale bar with three tick marks. The first tick mark is at the left end and is labeled '0'. The second tick mark is in the middle and is labeled '25'. The third tick mark is at the right end and is labeled '50'. Below the scale bar, the text 'SCALE IN FEET' is written in all capital letters.

FILE NAME T:\414121\Traffic Design\PROJECTS\SR 539\XL6478 - Duffner Dltch_FlshPassage\XL6478_PS_TS.dgn										<div><div>SEE SHEET CT1 DATE _____ P.E. STAMP BOX _____</div></div>		<div>DATE _____ P.E. STAMP BOX _____</div>		<div><div>Washington State Department of Transportation</div></div>		<div>SR 539 DUFFNER DITCH FISH PASSAGE</div>		Plot 11	
TIME 3:01:56 PM				REGION NO.		STATE		FED.AID PROJ.NO.										PLAN REF NO	
DATE 1/10/2023				10		WASH												ITS2	
PLOTTED BY AlmustW																		<div>SHEET 45 OF 58 SHEETS</div>	
DESIGNED BY W. ALMUSTAFA																			
ENTERED BY W. ALMUSTAFA																			
CHECKED BY C. WOO																			
PROJ. ENGR. M. AMBLER																			
REGIONAL ADM. B.NIELSEN		REVISION		DATE		BY													



A horizontal number line with tick marks at 0, 25, and 50. Below the line is the text "SCALE IN FEET".

FILE NAME T:\414121\Traffic DesIgn\PROJECTS\SR 539\XL6478 - Duffner Dltch_FlshPassage\XL6478_PS_TS.dgn										Plot 12											
TIME 3:01:57 PM								REGION NO.		STATE		FED.AID PROJ.NO.									
DATE 1/10/2023								10		WASH											
PLOTTED BY AlmustW								JOB NUMBER				LOCATION NO.									
DESIGNED BY W. ALMUSTAFA								22A040													
ENTERED BY W. ALMUSTAFA								CONTRACT NO.				SEE SHEET CT1 DATE									
CHECKED BY C. WOO																					
PROJ. ENGR. M. AMBLER												DATE									
REGIONAL ADM. B.NIELSEN																					
				REVISION				DATE		BY		DATE									




SEE SHEET CT1
DATE

P.E. STAMP BOX

P.E. STAMP BOX

P.E. STAMP BOX



Washington State
Department of Transportation

P.E. STAMP BOX

SR 539
DUFFNER DITCH
FISH PASSAGE

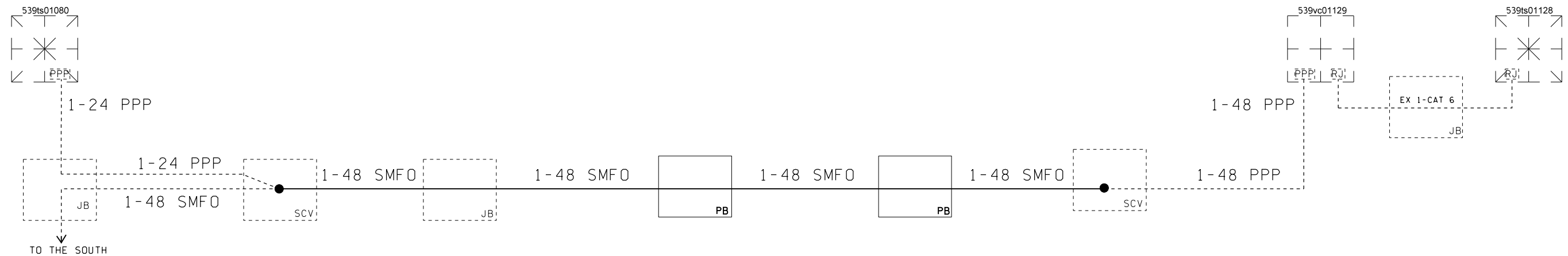
ITS PLAN

SHEET
46
OF
58
SHEETS

COMMUNICATION DIAGRAM

GENERAL NOTES:

1. ALL STRANDS NOT IDENTIFIED IN THE PRETERM PANEL SHALL BE THROUGH-SPLICED IN THE CLOSURE.
 2. NOT ALL PULL BOXES ARE SHOWN.
- FOR CABLE VAULT LOCATIONS, SEE SHEETS ITS2-ITS4.



KEY

EXISTING

NEW

•

●

FIBER OPTIC SPLICE

PPP

PPP

PRETERMINATED PATCH PANEL

 \overline{RJ}

RJ

CAT6 RJ45 TERMINATION

SMF 0

ABBREVIATIONS



SMFO - SINGLE MODE FIBER OPTIC CABLE

PPP - SINGLE MODE FIBER OPTIC PRETERMINATED PATCH PANEL

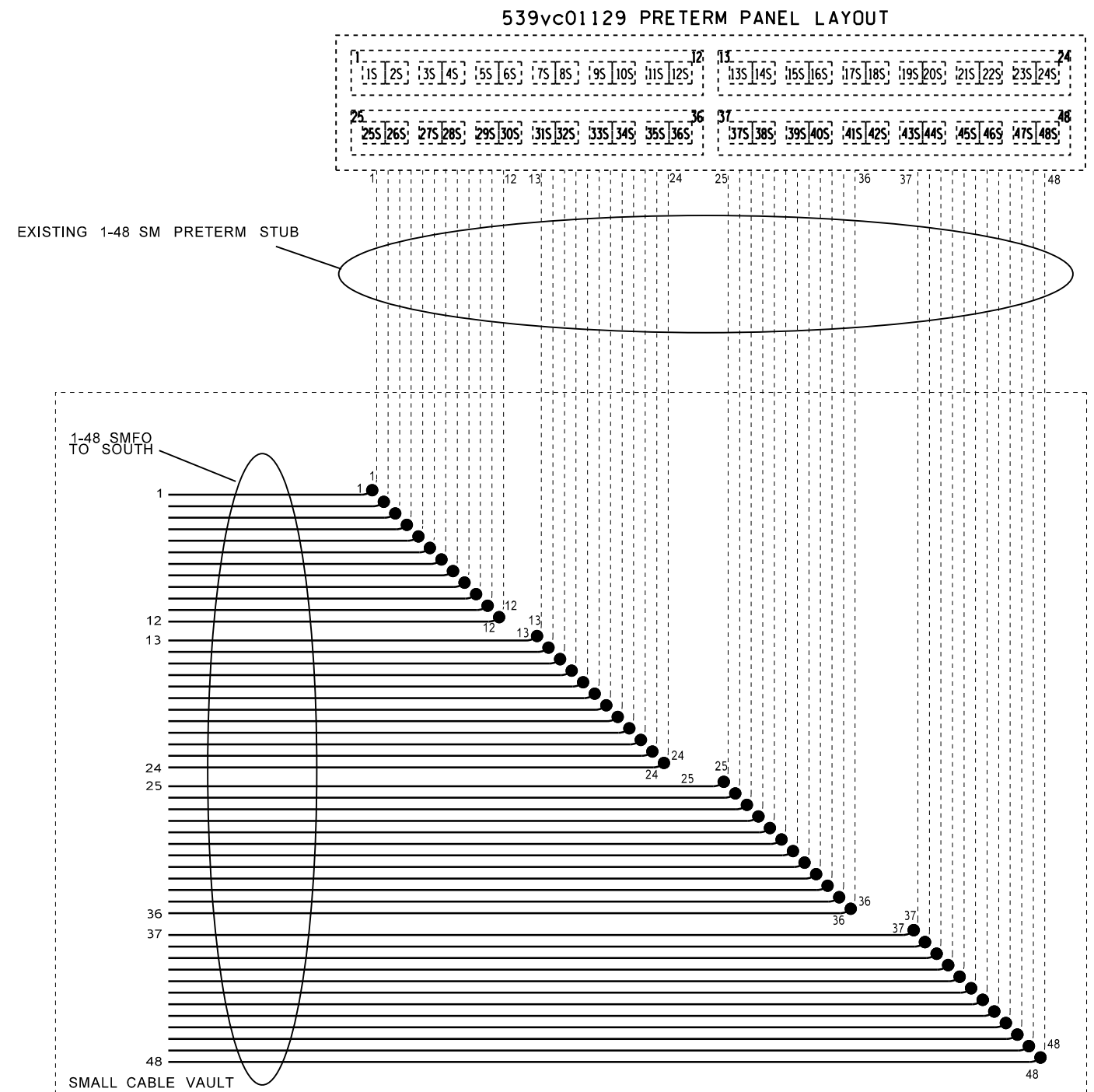
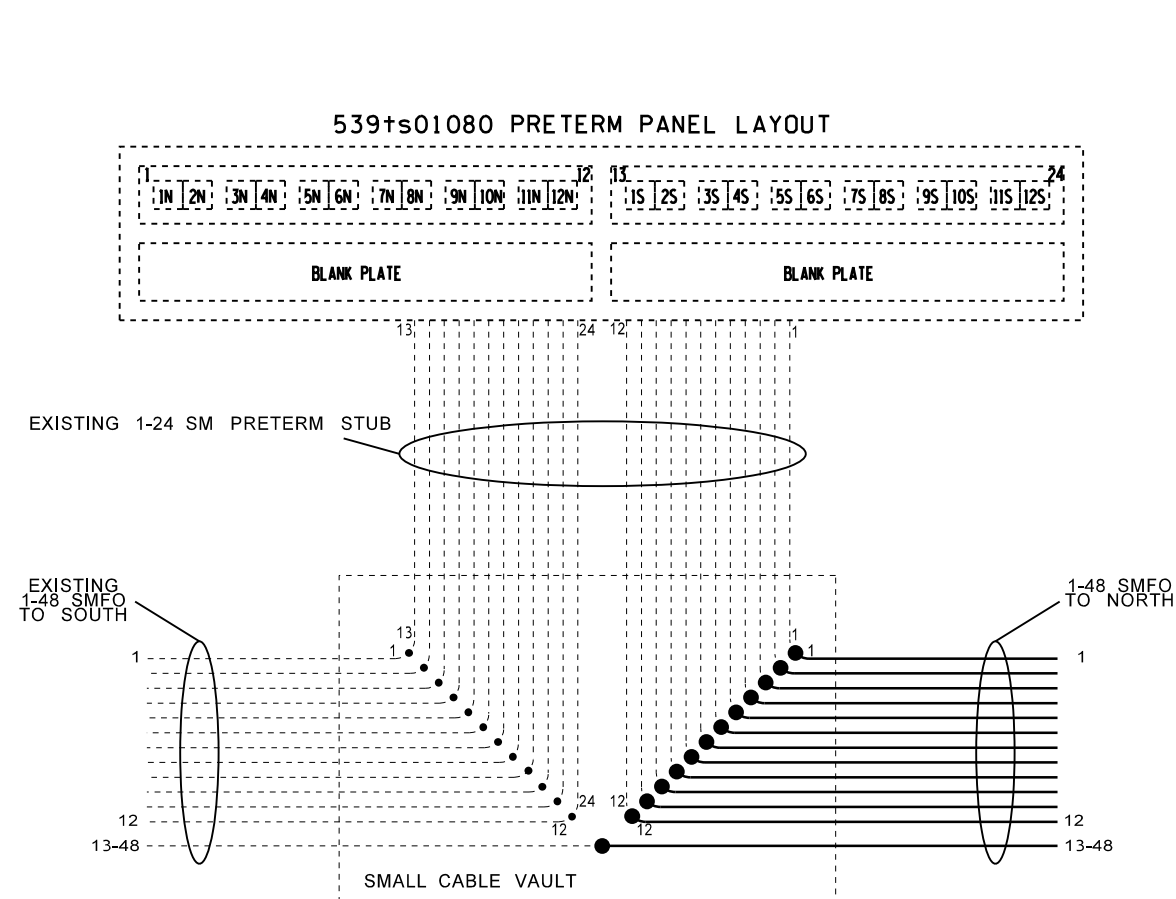
SCV - SMALL CABLE VAULT

CV - CABLE VAULT

PB - PULL BOX

FILE NAME T:\414121\Traffic Desgn\PROJECTS\SR 539\XL6478 - Duffner Dltch_FlshPassage\XL6478_PS_TS.dgn												 Washington State Department of Transportation		SR 539 DUFFNER DITCH FISH PASSAGE		Plot 14	
TIME 3:01:58 PM						REGION NO. STATE		FED.AID PROJ.NO.								PLAN REF NO	
DATE 1/10/2023						10 WASH								ITS D1			
PLOTTED BY AlmustW								JOB NUMBER						SHEET			
DESIGNED BY W. ALMUSTAFA								22A040						48			
ENTERED BY W. ALMUSTAFA														OF			
CHECKED BY C. WOO								CONTRACT NO.		LOCATION NO.				58			
PROJ. ENGR. M. AMBLER														SHEETS			
REGIONAL ADM. B.NIELSEN				REVISION		DATE		BY									

FIBER SPLICE DETAILS

[illegible]

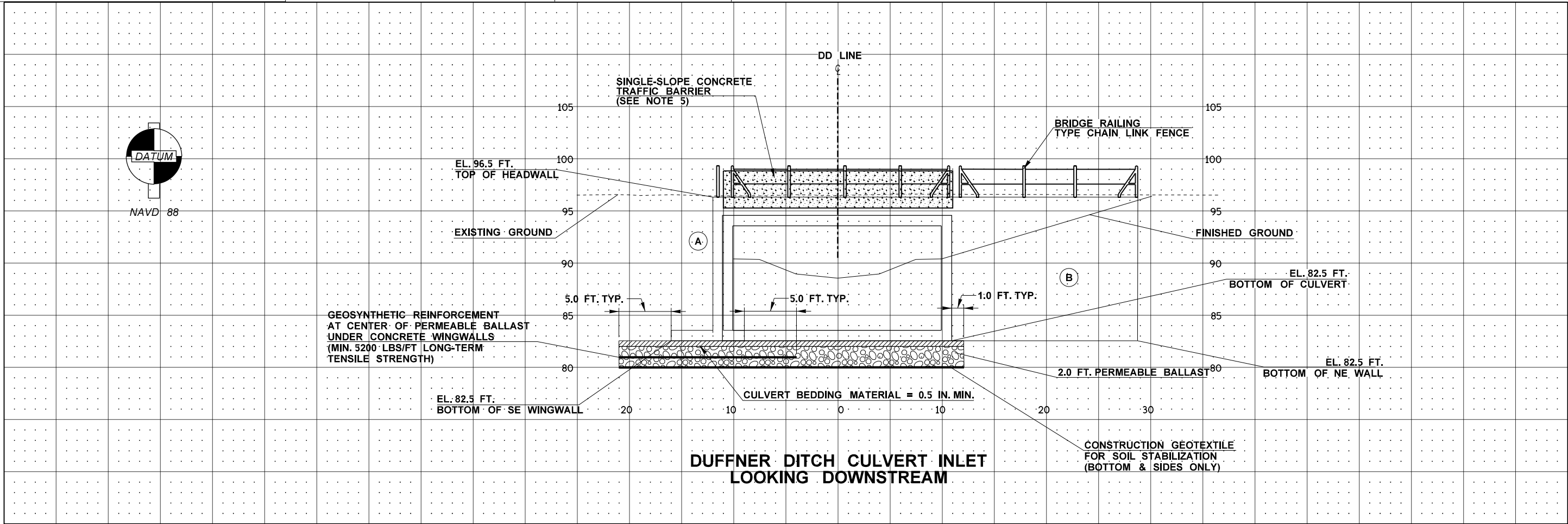
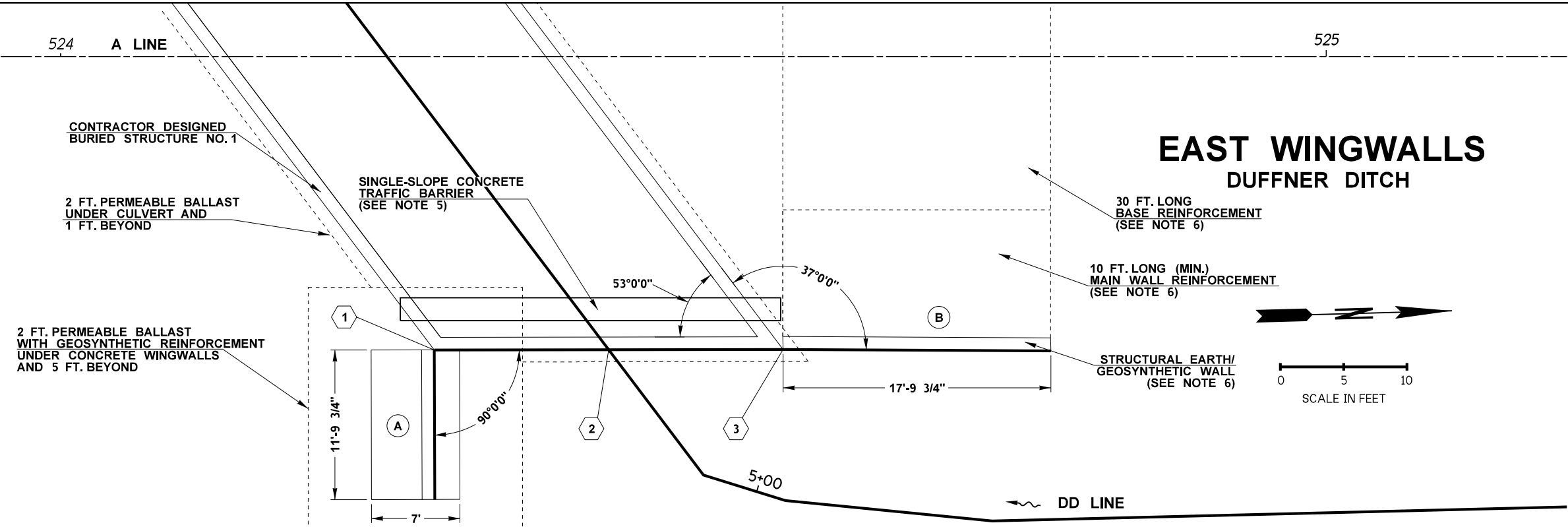
p:\HQ\OLYMAPPP\W03P.WSDOT\LOC\WSDOT\Documents\HofFish Passage\NWproj\539\11.00_DuffnerDitch\Design\CADD\PlansProduction\Sheets\XL6478_450_Plan\Drawings\p\w_wsdot\0460269\XL6478_450_PS_WD1-3.dgn

CULVERT STATION / OFFSET
DIMENSIONS

POINT	STATION / OFFSET
1	A 524+29.52 (23.18' LT)
2	A 524+43.31 (23.16' LT) = DD 4+83.19
3	A 524+57.08 (23.14' LT)

NOTES:

- ELEVATIONS IN UNITS OF FEET.
- CONCRETE WINGWALLS ARE SHOWN PER WSDOT STD PLANS AND ARE PROVIDED FOR GUIDANCE ONLY. CONTRACTOR SHALL REFER TO MANUFACTURER'S DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION.
- HEADWALL, WINGWALLS, AND CONCRETE TRAFFIC BARRIER ARE INCLUDED IN LUMP SUM BID ITEM "CONTRACTOR DESIGNED BURIED STRUCTURE".
- CHAIN LINK FENCE TO BE CONSTRUCTED ON WINGWALLS AND HEADWALLS.
- SEE RS1 FOR MORE INFORMATION ON SINGLE-SLOPE CONCRETE TRAFFIC BARRIER.
- NORTHEAST WING WALL REQUIRES STRUCTURAL EARTH WALL SHEET WD4.



FILE NAME	XL6478_450_PS_WD1-3.dgn
TIME	8:59:10 AM
DATE	1/17/2023
PLOTTED BY	nguyea
DESIGNED BY	A. NGUYEN
ENTERED BY	A. NGUYEN
CHECKED BY	S. TRAX
PROJ. ENGR.	M. AMBLER
REGIONAL ADM.	B. NIELSEN
REVISION	DATE BY

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	
JOB NUMBER		
22A040		
CONTRACT NO.	LOCATION NO.	



SEE SHEET CT1
DATE
P.E. STAMP BOX - SEE SHEET CT1 FOR SIGNATURE



SEE SHEET CT1
DATE
P.E. STAMP BOX - SEE SHEET CT1 FOR SIGNATURE

SR 539
DUFFNER DITCH
FISH PASSAGE

WALL DETAIL

PLAN REF NO
WD1
SHEET 50 OF 58 SHEETS

p:\H\QOL\YMAPPP\W03P.WSDOT\LOC\WSDOT\Documents\H\Q\Fish Passage\NW\proj\539\11.00_DuffnerDitch\Design\CADD\PlansProduction\Sheets\XL6478_450_P\WD1-3.dgn

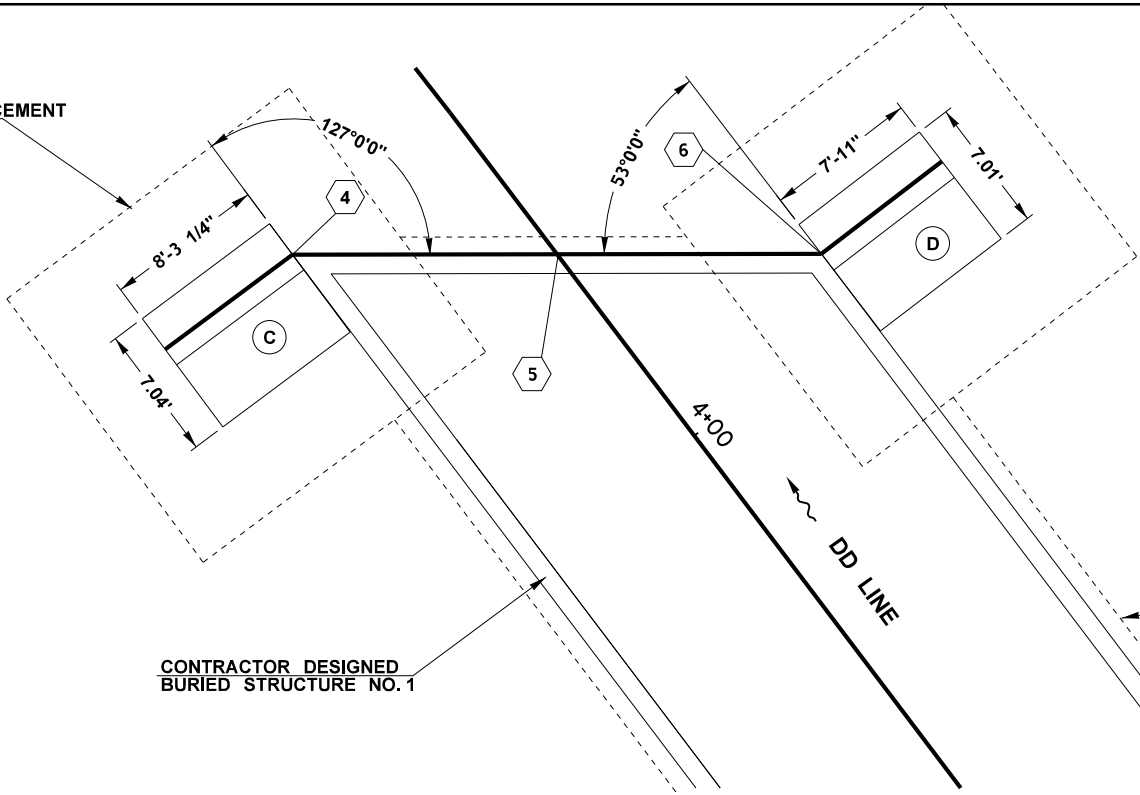
CULVERT STATION / OFFSET
DIMENSIONS

POINT	STATION / OFFSET
4	A 523+72.18 (52.65' LT)
5	A 523+85.97 (52.63' LT) = DD 3+88.13
6	A 523+99.73 (52.61' LT)

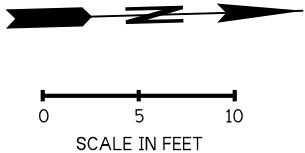
NOTES:

- ELEVATIONS IN UNITS OF FEET.
- CONCRETE WINGWALLS ARE SHOWN PER WSDOT STD PLANS AND ARE PROVIDED FOR GUIDANCE ONLY. CONTRACTOR SHALL REFER TO MANUFACTURER'S DRAWINGS AND SPECIFICATIONS FOR MORE INFORMATION.
- HEADWALL, WINGWALLS, AND CONCRETE TRAFFIC BARRIER ARE INCLUDED IN LUMP SUM BID ITEM "CONTRACTOR DESIGNED BURIED STRUCTURE".
- BRIDGE RAILING TYPE CHAINLINK FENCE TO BE CONSTRUCTED ON TOP OF WINGWALLS AND HEADWALLS.

2 FT. PERMEABLE BALLAST
WITH GEOSYNTHETIC REINFORCEMENT
UNDER CONCRETE WINGWALLS
AND 5 FT. BEYOND



WEST WINGWALLS
DUFFNER DITCH

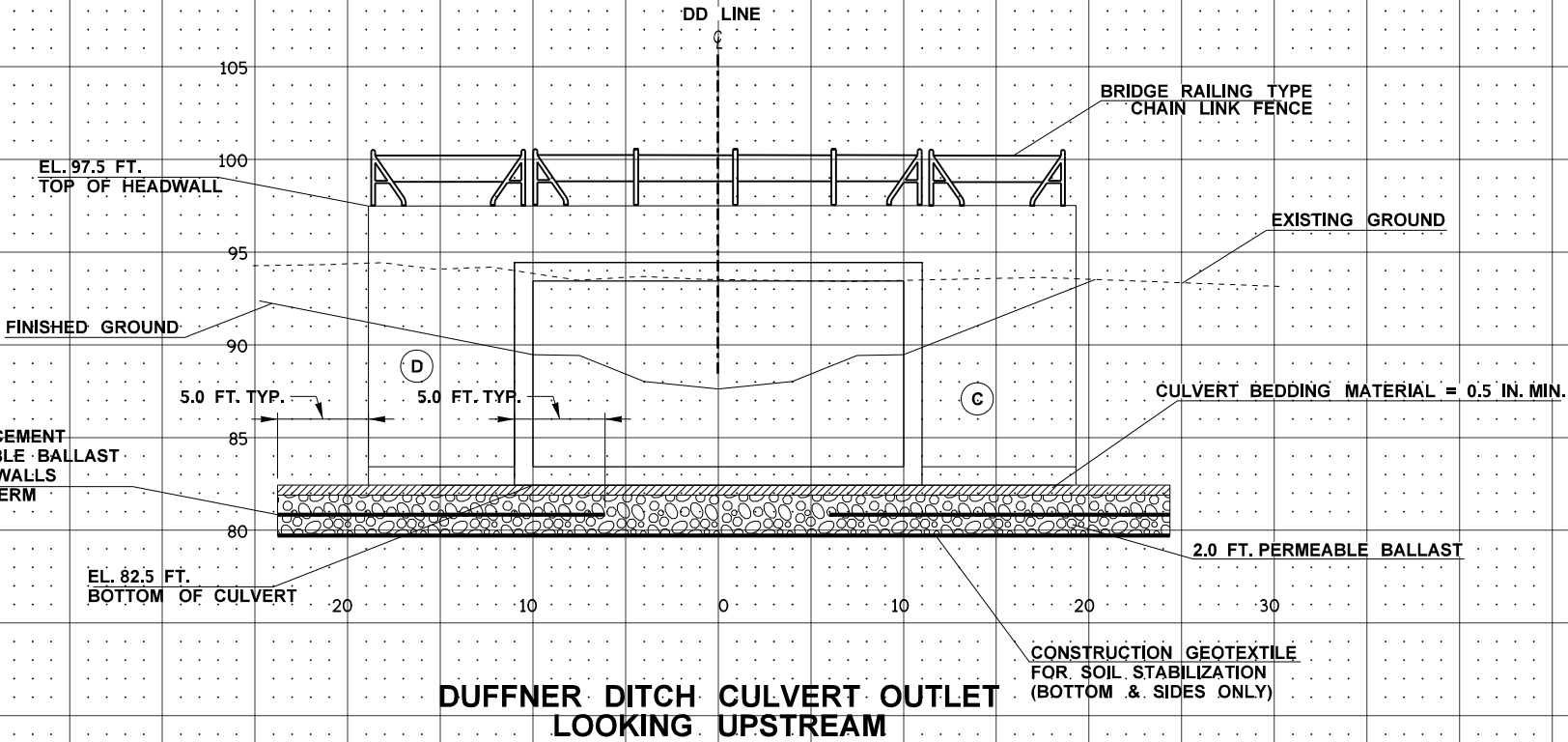


2 FT. PERMEABLE BALLAST
UNDER CULVERT AND
1 FT. BEYOND

CONTRACTOR DESIGNED
BURIED STRUCTURE NO.1



GEOSYNTHETIC REINFORCEMENT
AT CENTER OF PERMEABLE BALLAST
UNDER CONCRETE WINGWALLS
(MIN. 5200 LBS/FT. LONG-TERM
TENSILE STRENGTH)



DUFFNER DITCH CULVERT OUTLET
LOOKING UPSTREAM

FILE NAME	XL6478_450_PS_WD1-3.dgn
TIME	8:55:23 AM
DATE	1/17/2023
PLOTTED BY	nguyea
DESIGNED BY	A. NGUYEN
ENTERED BY	A. NGUYEN
CHECKED BY	S. TRAX
PROJ. ENGR.	M. AMBLER
REGIONAL ADM.	B. NIELSEN
REVISION	DATE BY

REGION NO.	STATE	FED. AID PROJ. NO.
10	WASH	
JOB NUMBER		
22A040		
CONTRACT NO.	LOCATION NO.	



SEE SHEET CT1
DATE

P.E. STAMP BOX - SEE SHEET CT1 FOR SIGNATURE



SEE SHEET CT1
DATE

P.E. STAMP BOX - SEE SHEET CT1 FOR SIGNATURE

SR 539
DUFFNER DITCH
FISH PASSAGE

WALL DETAIL

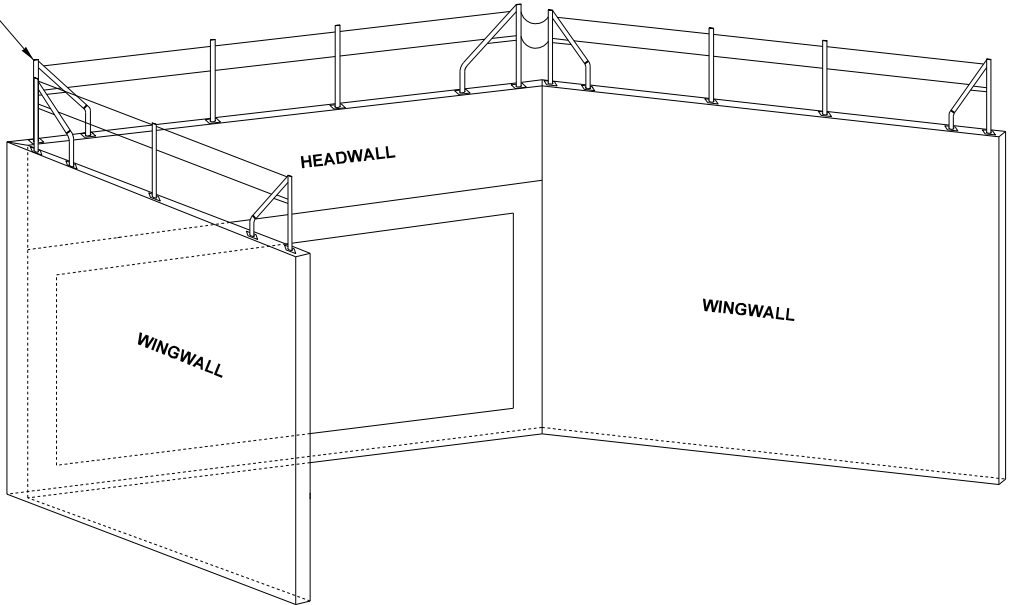
PLAN REF NO
WD2
SHEET
51
OF
58
SHEETS

pw:/HQOLYMAPPPW03P.WSDOT.LOC:WSDOT/Docs/WD1-3.dgn XL6478_450_PS_WD1-3.dgn

NOTES:

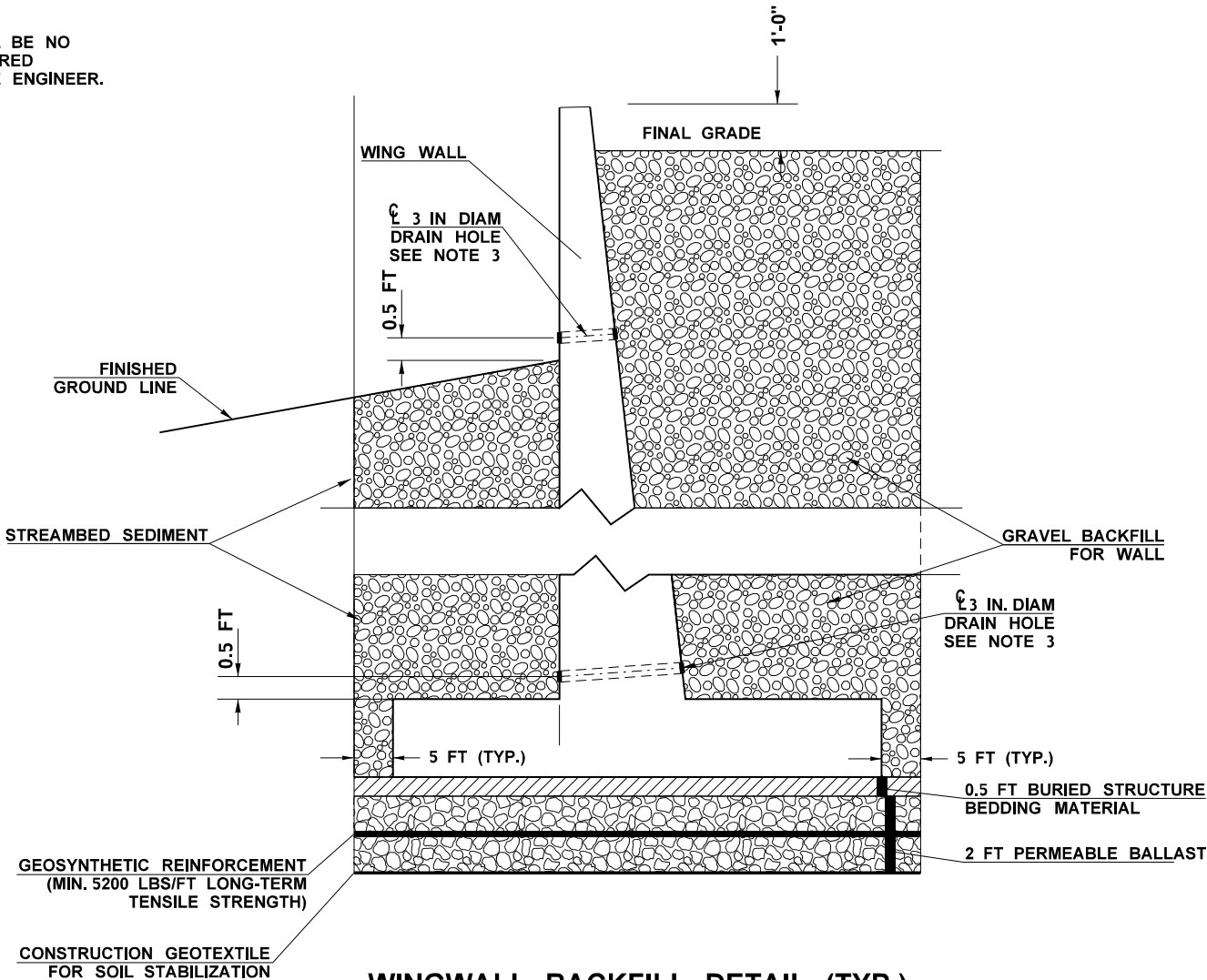
1. ALL DISTANCES MEASURED ALONG TOP OF WALL.
2. SEE SHEET WD1-WD2 FOR TOP OF WALL ELEVATIONS.
3. LOCATE TWO DRAIN HOLES BELOW THE FINISHED GROUND LINE AND TWO DRAIN HOLES ABOVE THE FINISHED GROUND LINE AS SHOWN IN THE WINGWALL BACKFILL DETAIL. EACH DRAIN HOLE SHALL BE LOCATED 2 FT HORIZONTALLY FROM EITHER END OF THE WINGWALL. COVER OUTLET AND INLET OF DRAIN HOLES WITH GEOTEXTILE PER STANDARD SPEC 6-02.3(22).
4. PLACE BRIDGE RAILING TYPE CHAINLINKE FENCE ALONG TOP OF HEADWALLS AND WINGWALLS.
5. THE GAP BETWEEN THE WING WALLS AND CULVERT SHALL BE NO GREATER THAN 1 IN. IF EXCEEDED, A CORRECTION IS REQUIRED AT THE CONTRACTOR'S EXPENSE, TO BE APPROVED BY THE ENGINEER.

SEE NOTE 4



TYPICAL BRIDGE RAILING TYPE CHAIN LINK FENCE DETAIL

NOT TO SCALE



WINGWALL BACKFILL DETAIL (TYP.)

NOT TO SCALE

FILE NAME	XL6478_450_PS_WD1-3.dgn	REGION NO.	STATE	FED. AID PROJ. NO.
TIME	11:19:49 PM	10	WASH	
DATE	1/8/2023	JOB NUMBER		
PLOTTED BY	nguyea	22A040		
DESIGNED BY	A. NGUYEN	CONTRACT NO.		
ENTERED BY	A. NGUYEN	LOCATION NO.		
CHECKED BY	S. TRAX			
PROJ. ENGR.	M. AMBLER			
REGIONAL ADM.	B. NIELSEN	REVISION	DATE	BY



SEE SHEET CT1

P.E. STAMP BOX - SEE SHEET CT1 FOR SIGNATURE



SEE SHEET CT1

P.E. STAMP BOX - SEE SHEET CT1 FOR SIGNATURE

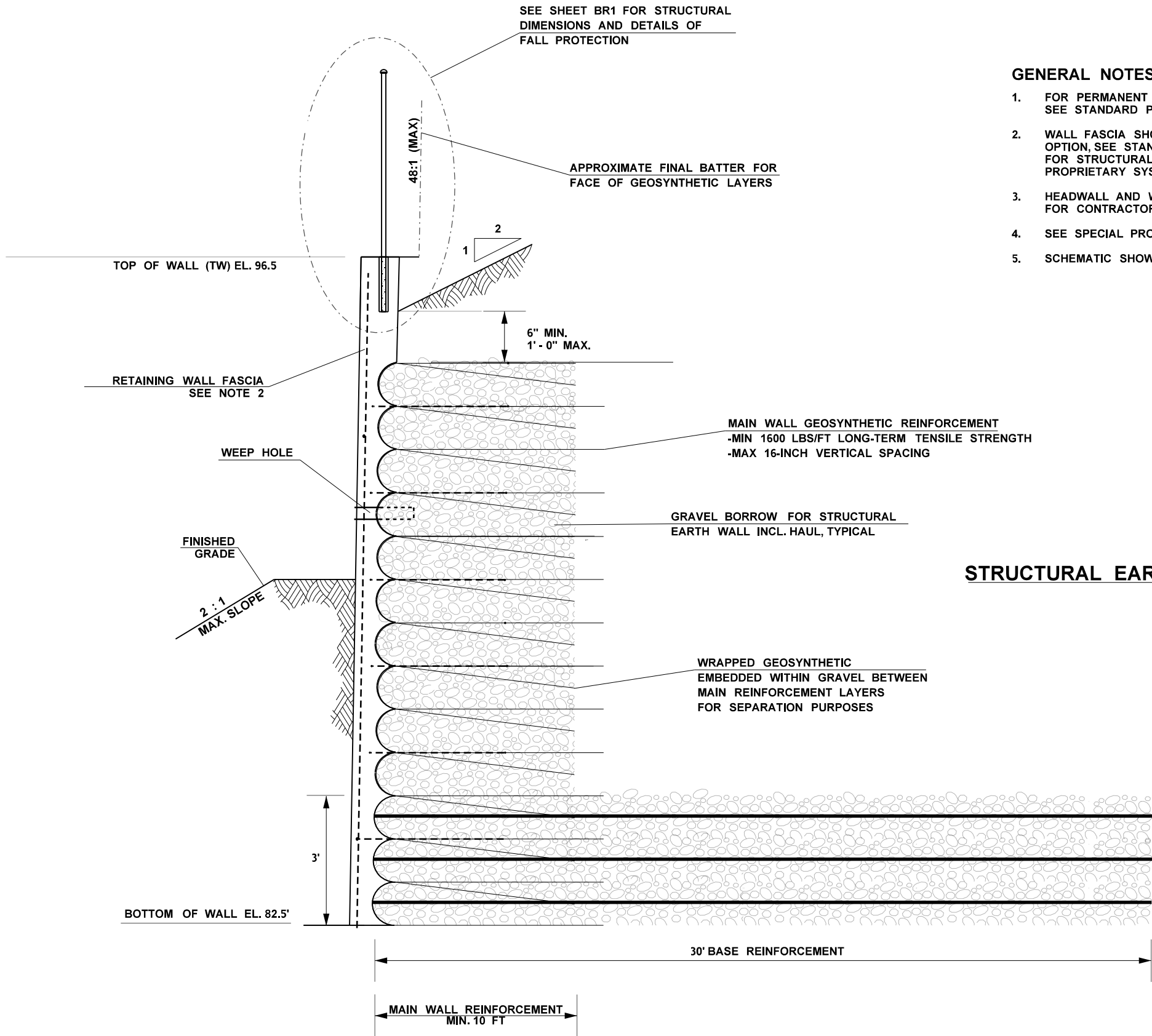
SR 539
DUFFNER DITCH
FISH PASSAGE

WALL DETAIL

PLAN REF NO

WD3

SHEET
52
OF
58
SHEETS



GENERAL NOTES:

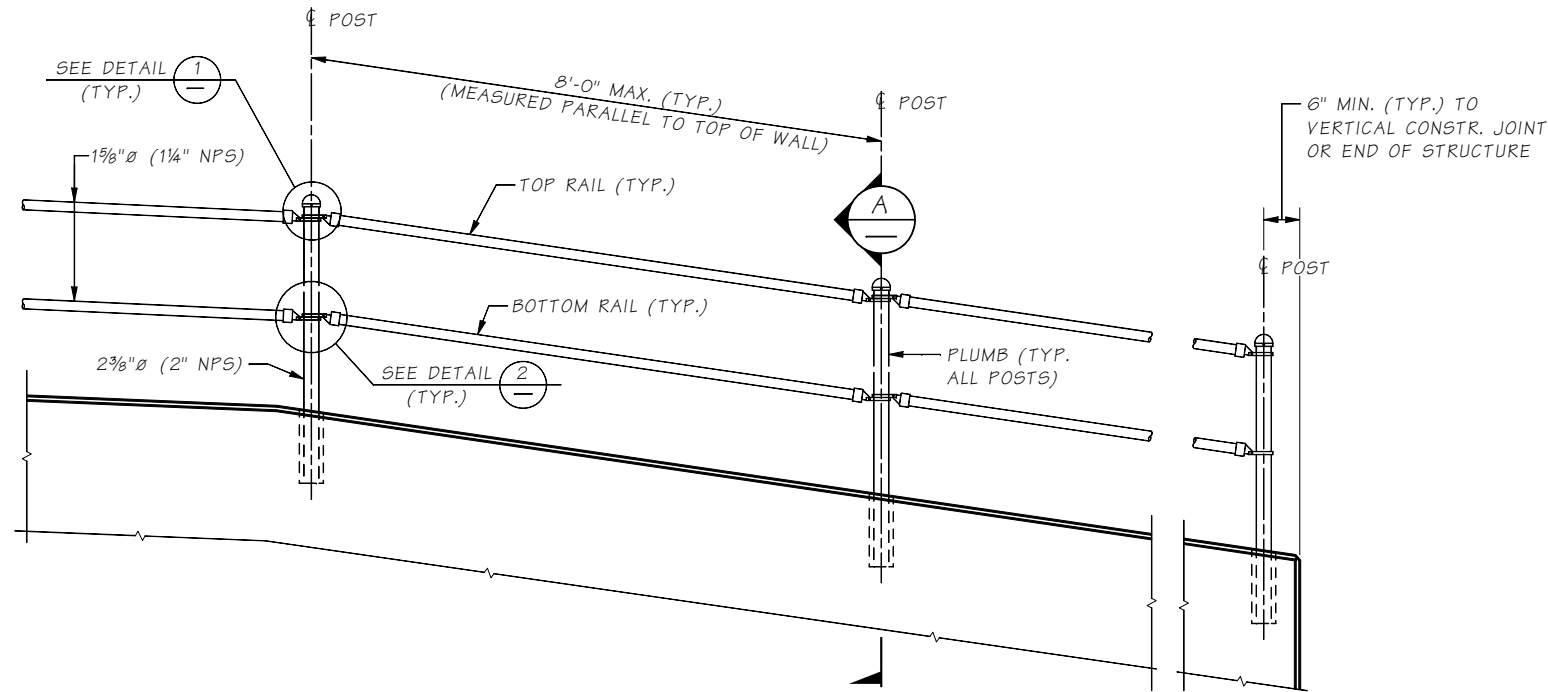
1. FOR PERMANENT GEOSYNTHETIC WALL, TYPE 2, SPECIFIC DESIGN SEE STANDARD PLAN D-3.09-00 AND SPECIAL PROVISIONS FOR MORE INFORMATION.
2. WALL FASCIA SHOWN FOR INFORMATION PURPOSES ONLY. FOR PERMANENT GEOSYNTHETIC WALL OPTION, SEE STANDARD PLAN D-3.11-03 FOR MORE SPECIFIC DESIGN INFORMATION. FOR STRUCTURAL EARTH WALL OPTION THE FASCIA WILL BE ACCORDING TO THE PROPRIETARY SYSTEM SELECTED.
3. HEADWALL AND WING WALLS ARE INCLUDED IN LUMP SUM BID ITEM FOR CONTRACTOR DESIGNED BURIED STRUCTURE.
4. SEE SPECIAL PROVISIONS FOR GEOSYNTHETIC REINFORCEMENT PROPERTIES.
5. SCHEMATIC SHOWN FOR INFORMATION PURPOSES ONLY

STRUCTURAL EARTH/GEOSYNTHETIC RETAINING WALL SCHEMATIC

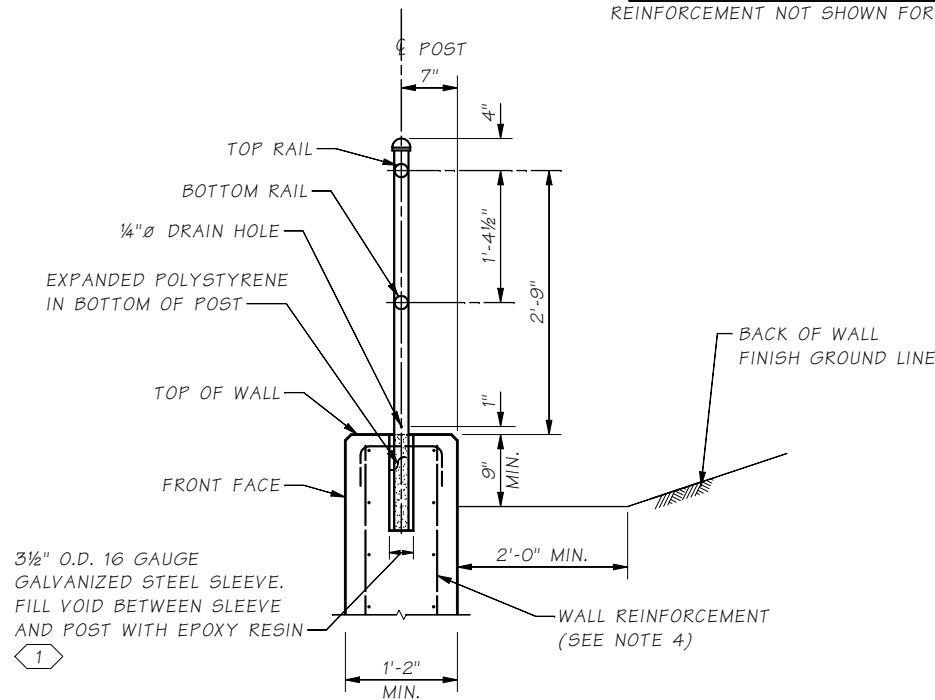
NOT TO SCALE

c:\users\nguyea\pwworkspace\0460269\XL6478_450_PS_WD4.dgn

FILE NAME XL6478_450_PS_WD4.dgn				REGION NO.	STATE	FED. AID PROJ. NO.				SR539 DUFFNER DITCH FISH PASSAGE WALL DETAIL	PLAN REF NO
TIME	10:26:19 AM			10	WASH						WD4
DATE	1/10/2023										
PLOTTED BY	nguyea										
DESIGNED BY	A. NGUYEN										
ENTERED BY	A. NGUYEN										
CHECKED BY	S. TRAX										
PROJ. ENGR.	M. AMBLER										
REGIONAL ADM.	B. NIELSEN										
REVISION				DATE	BY	CONTRACT NO.	LOCATION NO.	SEE SHEET CT1 DATE	SEE SHEET CT1 DATE		SHEET 53 OF 58 SHEETS



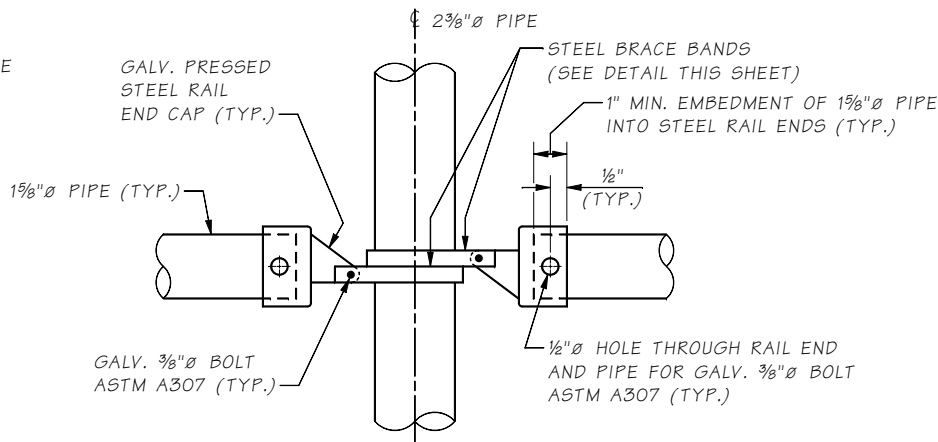
TYPICAL ELEVATION
REINFORCEMENT NOT SHOWN FOR CLARITY.



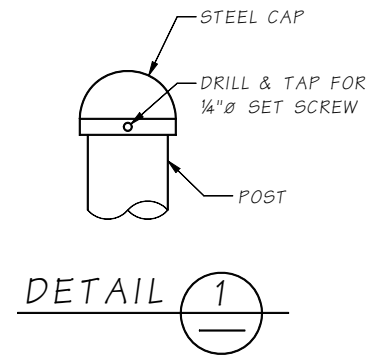
SECTION A

LEGEND

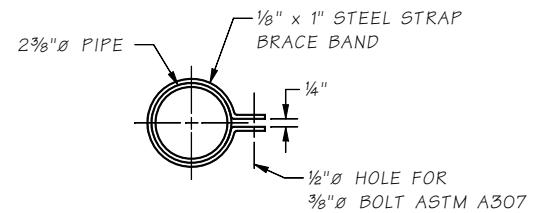
NPS NOMINAL PIPE SIZE



DETAIL 2



DETAIL 1



BRACE BAND

NOTES:

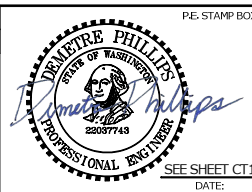
1. ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION DATED 2023.
2. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION 2020 AND LOADING IN ACCORDANCE WITH WAC 296-880.
3. THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH WAC 296-880.
4. WALL REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE WALL DETAILS AND SHALL ACCOUNT FOR THE ATTACHMENTS SHOWN HERE AND BE DESIGNED FOR FALL PROTECTION LOADING IN ACCORDANCE WITH WAC 296-880. WALL DETAILS SHALL BE SUBMITTED FOR CONTRACTOR SUPPLIED DESIGN OR PROVIDED IN THIS CONTRACT FOR CONTRACTING AGENCY SUPPLIED DESIGN.
5. UNLESS OTHERWISE SHOWN IN THE PLANS, CONCRETE COVER MEASURED FROM THE FACE OF CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 2" MIN. CLR.
6. POST AND RAIL ELEMENTS SHALL CONFORM TO SECTION 9-16.1(1)A AND SHALL BE SCHEDULE 40 (MINIMUM YIELD STRNTH OF 50KSI). FITTINGS AND HARDWARE SHALL CONFORM TO SECTION 9-16.1(1)D. FITTINGS SHALL BE PRESSED STEEL.
7. ALL STEEL PARTS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M111, M232 OR ASTM F2329 AFTER FABRICATION, UNLESS NOTED OTHERWISE.
8. ALL TUBES, PIPES, AND HARDWARE, SHALL BE SHOP PAINTED OR POWDER COATED AFTER GALVANIZING IN ACCORDANCE WITH SECTION 6-07.3(11). THE COLOR OF THE FINISH COAT, WHEN DRY, SHALL MATCH THE COLOR SAE AMS STANDARD COLOR NO. 20045. AFTER INSTALLATION, ANY SURFACES WITH PAINT OR POWDER COATING DAMAGE SHALL BE REPAIRED IN ACCORDANCE WITH STD. SPEC. 6-07.3(10)P OR 6-07.3(11)B6 RESPECTIVELY.
9. THE CHAIN LINK PIPE RAIL FENCE SHALL BE PLACED OUTSIDE THE ROADWAY DESIGN CLEAR ZONE OR SHIELDED BY A TRAFFIC BARRIER AND PLACED OUTSIDE THE DEFLECTION DISTANCE OF THE TRAFFIC BARRIER. FOR TRAFFIC BARRIER HAVING NO DEFLECTION DISTANCE, THE FENCE SHALL BE PLACED A MINIMUM HORIZONTAL DISTANCE OF 3 FEET - 6 INCHES AS MEASURED FROM THE TOP FRONT FACE OF THE BARRIER.

KEY NOTES:

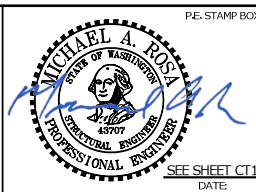
- 1 STEEL SLEEVE MAY BE OMITTED IF HOLE IS CORED. CORED HOLES SHALL BE 3" IN DIAMETER AND WALLS ROUGHENED. IT IS STRUCTURALLY ACCEPTABLE TO CORE THROUGH TOP TRANSVERSE TIES.

Bridge Design Engr.	LeTand, A	M:\Y-Team\SR 539 DUFFNER DITCH FP\window files\CABLE FENCE DETAILS 1.WND									
Supervisor	Rosa, MA										
Designed By	Phillips, D	09/22									
Checked By	Rosa, M										
Detailed By	wrenn, M	09/22									
Bridge Projects Engr.											
Prelim. Plan By											
Architect/Specialist											
DATE		REVISION		BY	APPD						

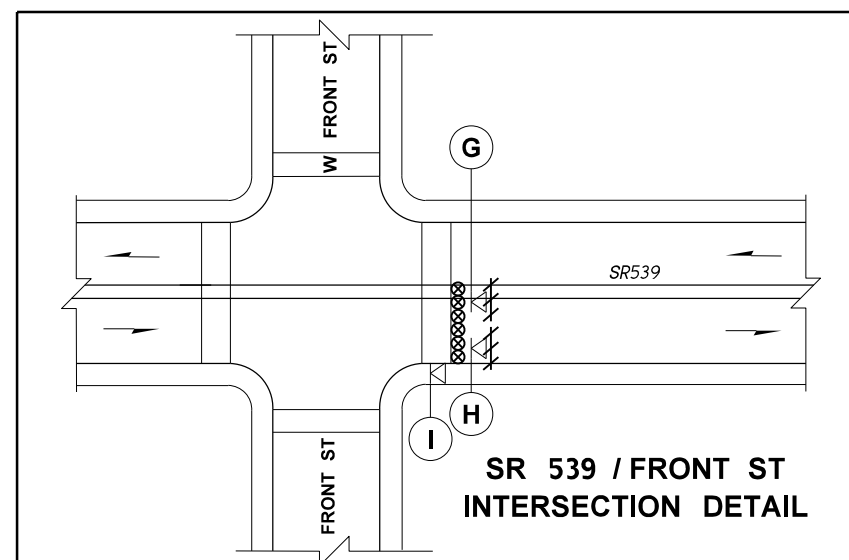
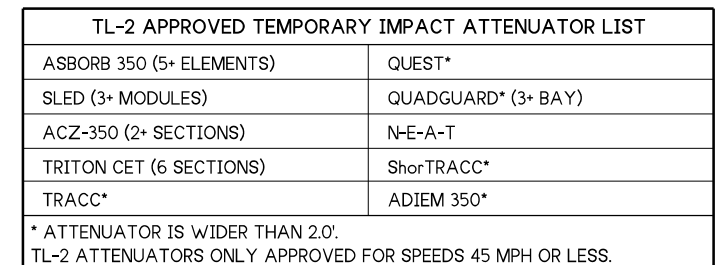
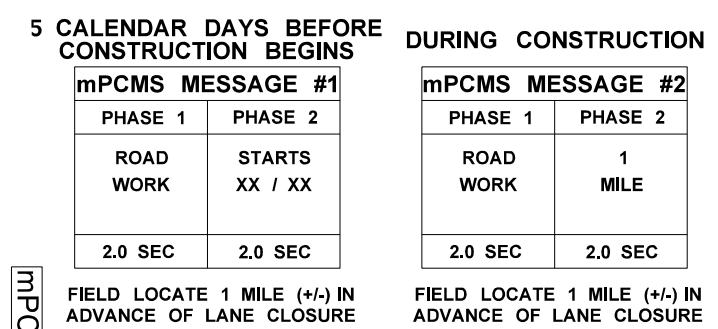
Tue Jan 10 08:50:06 2023



BRIDGE AND STRUCTURES OFFICE



SR 539 DUFFNER DITCH FISH PASSAGE		BRIDGE SHEET NO. BR1
FENCE DETAILS		SHEET 54 OF 58 SHEETS



SIGN SPACING = X		
FREEWAYS & EXPRESSWAYS	60 / 65 MPH	1500' ± (OR AS PER MUTCD)
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)

(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERCHANGE RAMPS, AT-GRADE INTERSECTIONS AND DRIVEWAYS.

(2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.

BUFFER DATA										
LONGITUDINAL BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
TRANSPORTABLE ATTENUATOR ROLL AHEAD DISTANCE = R										
HOST VEHICLE WEIGHT 9,900 TO 22,000 lbs.				HOST VEHICLE WEIGHT > 22,000 lbs.						
< 45 MPH	45-55 MPH	> 55 MPH		< 45 MPH		45-55 MPH		> 55 MPH		
100'	123'	172'		74'		100'		150'		
PROTECTIVE VEHICLE (WORK VEHICLE) = R										
NO SPECIFIED DISTANCE REQUIRED										

- ## GENERAL NOTES:
1. ALL SIGNS SHALL BE BLACK ON ORANGE UNLESS OTHERWISE SPECIFIED.
 2. MAINTAIN ACCESS FOR BUSINESSES AND RESIDENCES WITHIN WORK AREA.
 3. PROTECTIVE VEHICLE RECOMMENDED - MAY BE A WORK VEHICLE.
 4. TRANSPORTABLE ATTENUATOR (TA) IS REQUIRED
 5. NIGHT WORK REQUIRES ADDITIONAL LIGHTING AT FLAGGING STATIONS.
SEE STANDARD SPECIFICATIONS FOR ADDITIONAL DETAILS.
 6. SIGNS "BE PREPARED TO STOP" AND "FLAGGER AHEAD" SHOULD ONLY
BE POSTED WHEN FLAGGERS ARE PRESENT.
 7. SEE SPECIAL PROVISIONS FOR WORK HOUR RESTRICTIONS.
 8. PEDESTRIAN TRAFFIC SHALL BE ACCOMMODATED AT ALL TIMES, WHICH
MAY INCLUDE ESCORTING PEDESTRIANS THROUGH THE WORK AREA AS NEEDED.
 9. PCMS SHALL NOT BE MORE THAN 3 MILES FROM THE ACTUAL WORK OPERATION.
 10. CONTRACTOR TO PROVIDE 48 HOUR ADVANCE NOTICE TO EMERGENCY AGENCIES
OF ALL CLOSURES.

LEGEND

- TYPE 3 BARRICADE
- TRAFFIC SAFETY DRUMS
-SEE SPECIAL PROVISIONS
- WORK ZONE
- TEMPORARY BARRIER
- TEMPORARY IMPACT ATTENUATOR
- PROTECTIVE VEHICLE
- CLASS A SIGN
- MINI PORTABLE CHANGEABLE MESSAGE SIGN

FILE NAME		XL6478_470_PS_TC2.dgn			REGION NO.	STATE	FED. AID PROJ. NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
-----------	--	-----------------------	--	--	------------	-------	--------------------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

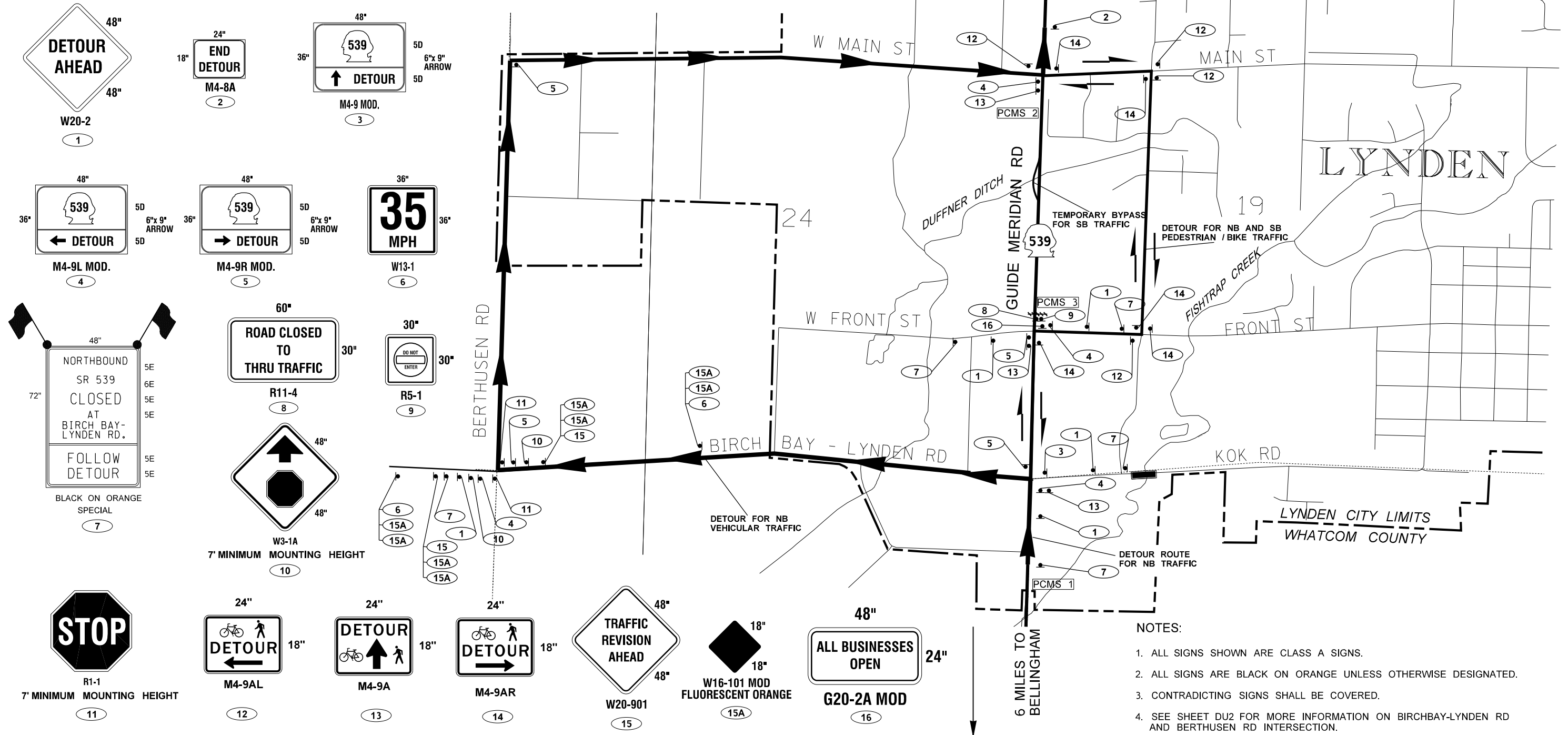
PCMS 1 MESSAGE 1	
PHASE 1	PHASE 2
SR 539 WILL BE DETOURED	DATE THRU DATE
<u>2.0 SEC</u>	<u>2.0 SEC</u>

PCMS 1 MESSAGE 2	
PHASE 1	PHASE 2
SR 539 CLOSED AHEAD	FOLLOW DETOUR
<u>2.0 SEC</u>	<u>2.0 SEC</u>

PCMS 2	
PHASE 1	PHASE 2
NEW TRAFFIC PATTERN	NEW TRAFFIC PATTERN
<u>2.0 SEC</u>	<u>2.0 SEC</u>

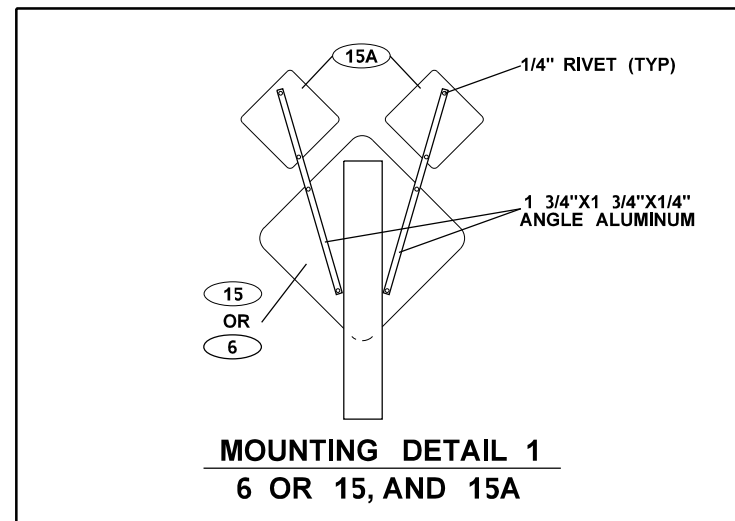
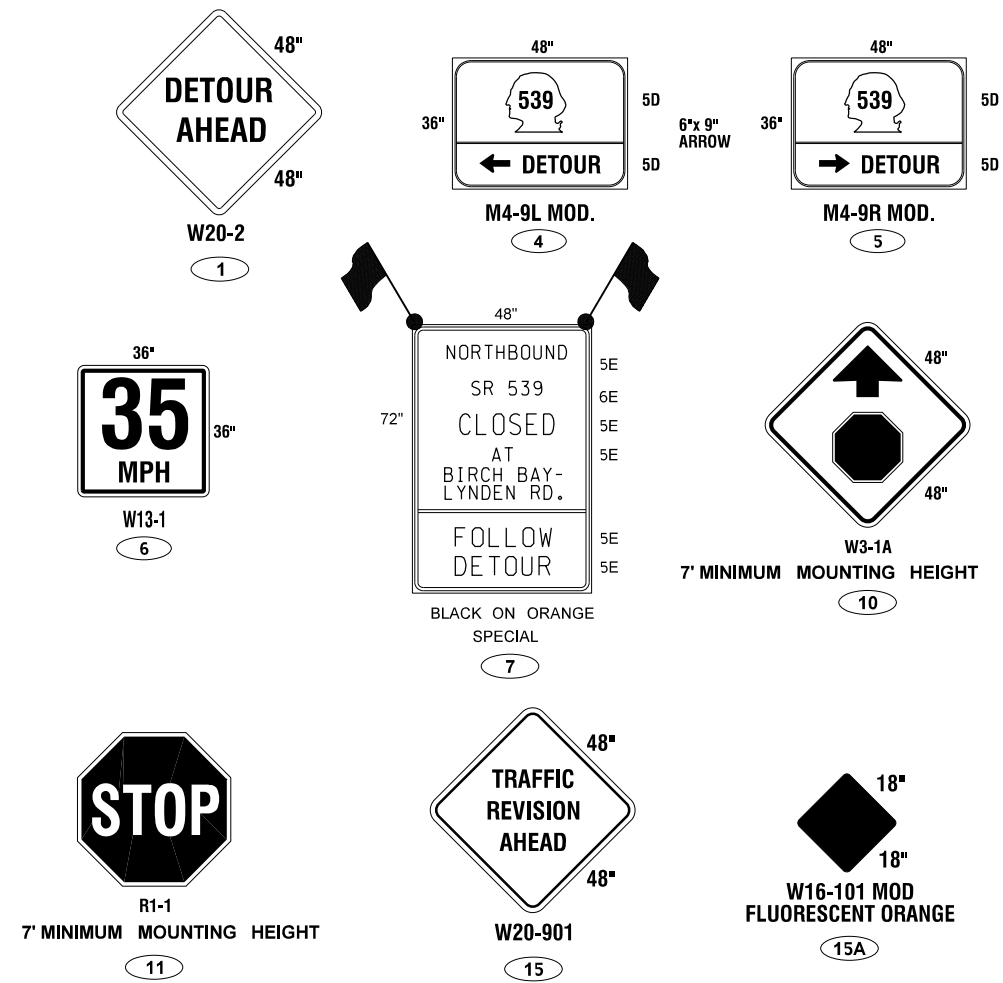
PCMS 3	
PHASE 1	PHASE 2
ROAD CLOSED	DO NOT ENTER
<u>2.0 SEC</u>	<u>2.0 SEC</u>

T. 40N. R. 2-3E. W.M.

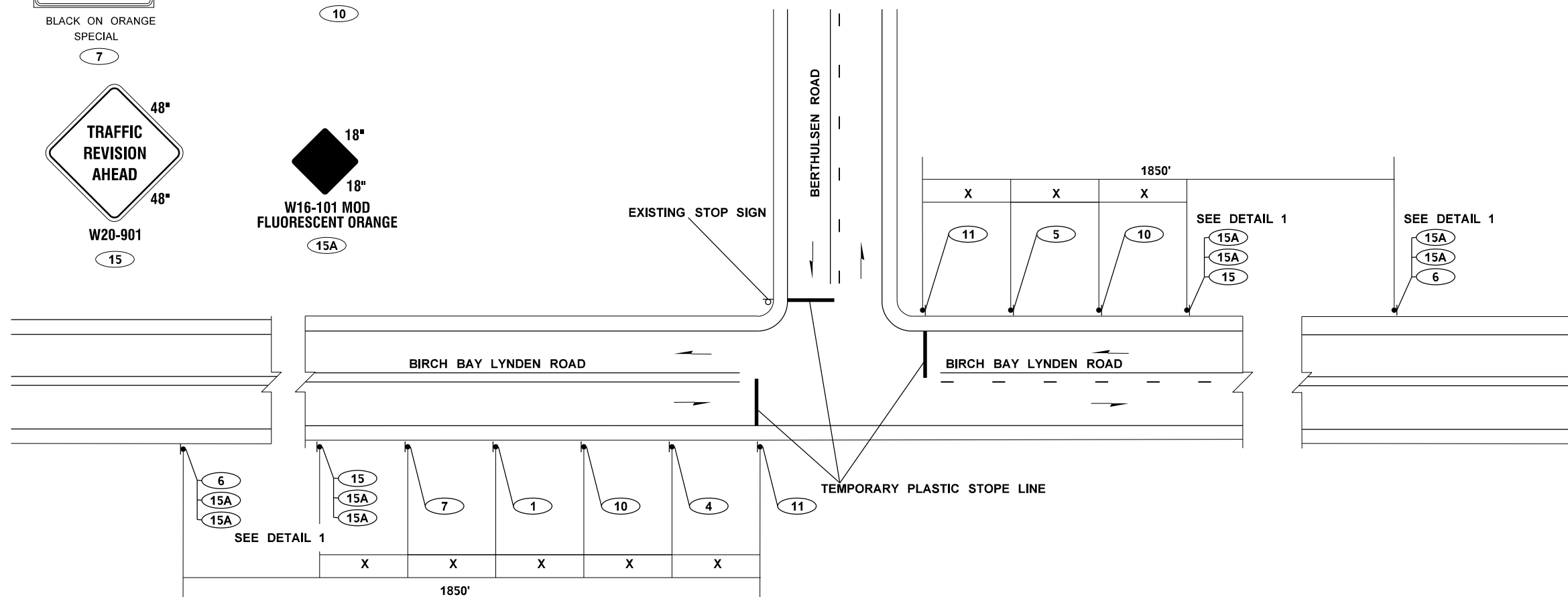


1. ALL SIGNS SHOWN ARE CLASS A SIGNS.
2. ALL SIGNS ARE BLACK ON ORANGE UNLESS OTHERWISE DESIGNATED.
3. CONTRADICTING SIGNS SHALL BE COVERED.
4. SEE SHEET DU2 FOR MORE INFORMATION ON BIRCHBAY-LYNDEN RD AND BERTHUSEN RD INTERSECTION.

FILE NAME					XL6478_480_PS_DU.dgn			REGION NO.	STATE	FED. AID PROJ. NO.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
-----------	--	--	--	--	----------------------	--	--	------------	-------	--------------------	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--




SIGN SPACING = X (1)		
RURAL HIGHWAYS	60 / 65 MPH	800' ±
RURAL ROADS	45 / 55 MPH	500' ±
RURAL ROADS & URBAN ARTERIALS	35 / 40 MPH	350' ±
RURAL ROADS, URBAN ARTERIALS, RESIDENTIAL & BUSINESS DISTRICTS	25 / 30 MPH	200' ± (2)
URBAN STREETS	25 MPH OR LESS	100' ± (2)
(1) ALL SPACING MAY BE ADJUSTED TO ACCOMMODATE INTERSECTIONS AND DRIVEWAYS. (2) THIS SPACING MAY BE REDUCED IN URBAN AREAS TO FIT ROADWAY CONDITIONS.		



**BIRCH BAY LYNDEN ROAD / BERTHULSEN ROAD
NORTH BOUND DETOUR
INTERSECTION SIGNING DETAIL**

GENERAL NOTES:

1. ALL SIGNS SHOWN ARE CLASS A SIGNS.
2. TEMPORARY STOP SIGN AND STOP BAR LOCATION TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
3. CONTRADICTING SIGNS SHALL BE COVERED

FILE NAME					XL6478_481_PS_DU2.dgn					REGION NO.	STATE	FED. AID PROJ. NO.						SR 539 DUFFNER DITCH FISH PASSAGE	PLAN REF NO.		
TIME		10:19:48 AM						10	WASH		DU2										
DATE		12/23/2022						JOB NUMBER													
PLOTTED BY		nguyea						22A040													
DESIGNED BY		A. NGUYEN						CONTRACT NO.		LOCATION NO.											
ENTERED BY		A. NGUYEN																			
CHECKED BY		S. TRAX																SHEET 58 OF 58 SHEETS			
PROJ. ENGR.		M. AMBLER																			
REGIONAL ADM.		B. NIELSEN		REVISION		DATE	BY														
										DATE	DATE	DETOUR PLAN									
										P.E. STAMP BOX - SEE SHEET CT1 FOR SIGNATURE				P.E. STAMP BOX - SEE SHEET CT1 FOR SIGNATURE							